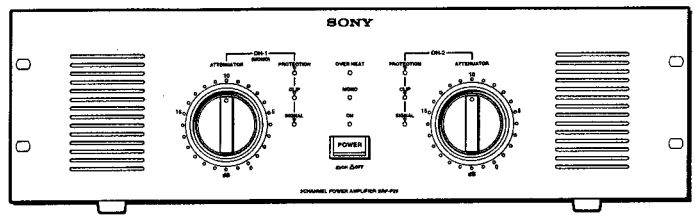
SRP-P26/P15

SERVICE MANUAL

AEP Model
E Model



SPECIFICATIONS

	SRP-P26	SRP-P15
Input Method	Balanced type	Balanced type
Input Circuit	Electronic balanced circuit	Electronic balanced circuit
Input Impedance	Above 20 kΩ	Above 20 kΩ
Input Terminal	XLR-3-31 type /Barrier strips/Phone type	XLR-3-31 type /Barrier strips/Phone type

Operation	**STEREO**	**MONO**	**STEREO**	**MONO**
Speaker Terminals	Screw type terminal/ Neutrik NL4		Screw type terminal/ Neutrik NL4	
Regulated Output*	250 W + 250 W (8 Ω) 400 W + 400 W (4 Ω) (When driving both channels)	800 W (8 Ω)	150 W + 150 W (8 Ω) 250 W + 250 W (4 Ω) (When driving both channels)	500 W (8 Ω)
Frequency Characteristics	20 Hz to 20 kHz $^{+0}_{-1}$ dB		20 Hz to 20 kHz $^{+0}_{-1}$ dB	
Dumping Factor	Above 100 (8 Ω, 1 kHz)	——	Above 100 (8 Ω, 1 kHz)	——
Channel Separation	Above 85 dB (During 8 Ω, 1 kHz regulated output)	——	Above 85 dB (During 8 Ω, 1 kHz regulated output)	——
High Frequency Distortion Rate	Below 0.1% (During 8 Ω, 100 W output)	Below 0.1% (During 8 Ω, 200 W output)	Below 0.1% (During 8 Ω, 100 W output)	Below 0.1% (During 8 Ω, 200 W output)
Residual Noise Voltage (IHF:A. Input Short-Circuit)	Below 120 μV	Below 240 μV	Below 120 μV	Below 240 μV
Max. Amplitude	31 dB	37 dB	31 dB	37 dB
Indicator	SIGNAL Indicator CLIP Indicator PROTECTION Indicator OVER HEAT Indicator MONO Indicator POWER Indicator		SIGNAL Indicator CLIP Indicator PROTECTION Indicator OVER HEAT Indicator MONO Indicator POWER Indicator	
Power Consumption	600 W		400 W	
Weight	16 kg		15 kg	

0 dBs = 0.775 V

* Distortion of 1 kHz high frequency is 0.1%.

POWER AMPLIFIER

MICROFILM

SONY®

TABLE OF CONTENTS

1. GENERAL 3

2. DISASSEMBLY
CASE, UPPER 6
FRONT PANEL 6
PS BOARD 7
A-CLASS/MAIN/TH BOARDS 7
SP/INPUT/JACK/BOARDS 8
Circuit Boards Location 8

3. ELECTRICAL ADJUSTMENT 9

4. DIAGRAMS
4-1. BLOCK DIAGRAM 10
4-2. PRINTED WIRING BOARD — MAIN/INPUT/ JACK/SP/A-CLASS/VOL1/VOL2 BOARDS — 11
4-3. CIRCUIT DIAGRAM — MAIN/INPUT/JACK/ SP/A-CLASS/VOL1/VOL2 BOARDS — 13
4-4. PRINTED WIRING BOARD — PS/LED/SW/ T1/T2/TH BOARDS — 16
4-5. CIRCUIT DIAGRAM — PS/LED/SW/T1/T2/TH BOARDS — 19

5. REPAIR PARTS LIST
5-1. FRONT PANEL SECTION 21
5-2. HEAT SINK SECTION 22
5-3. REAR PANEL SECTION 23

6. ELECTRICAL PARTS LIST 24

SAFETY-RELATED COMPONENT WARNING!!

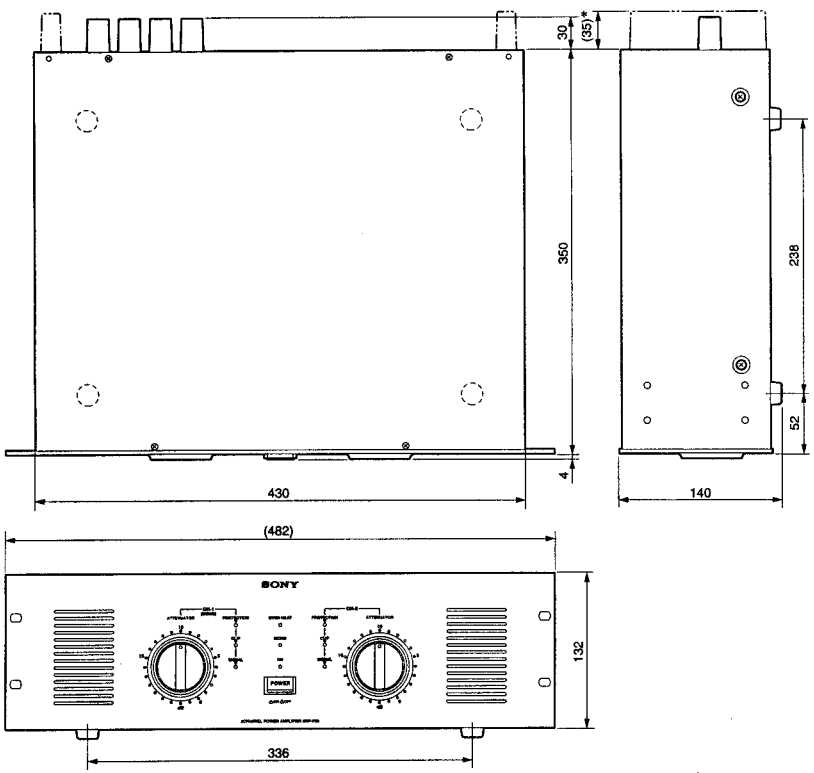
COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer.

1. Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
3. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
4. Look for parts which, through functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
5. Check the B+ voltage to see it is at the values specified.
6. Flexible Circuit Board Repairing
   - Keep the temperature of the soldering iron around 270°C during repairing.
   - Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
   - Be careful not to apply force on the conductor when soldering

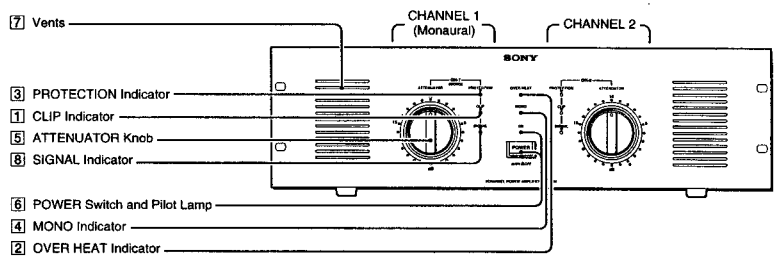
EXTERNAL DIMENSIONS



* When mounting of the supplied rear foot (Refer to page 7).

NAMES AND FUNCTIONS OF PARTS

Front Panel



CHANNEL 1 and CHANNEL 2 equip with the same function

1 CLIP Indicator (Red)
Lights up when the output waveform is distorted.
If this indicator lights up frequently, the input level may be too high or the input route may be faulty. Correct the problem.

2 OVER HEAT (Overheat warning) Indicator (Red)
Lights up when the heat sink temperature exceeds the specified temperature. In such cases, take steps to ensure proper ventilation.

3 PROTECTION (Protection circuit) Indicator (Red)
Lights up when the protection circuit is operating.
Lights up when the POWER switch is turned ON, but goes off when the amplifier stabilizes.

4 MONO (Monaural) Indicator (Green)
Indicates that the OPERATION switch on the rear panel is set to MONO.

5 ATTENUATOR Knob
Can be adjusted in steps of 1 dB from Max. 0 to 17 (–17 dB attenuation).

CHANNEL 1 (MONO) side:
Used to adjust the level of channel 1 of this unit. Also used to adjust the input level when using the unit in the MONO mode by BTL.

CHANNEL 2 (STEREO) side:
Used to adjust the level of channel 2 of this unit. When the OPERATION switch on the rear panel is set to MONO, this knob cannot be used to adjust the input level because it is separated from the signal route.

6 POWER Switch and Pilot Lamp (Green)
The power is turned ON and the pilot lamp lights up when this switch is pressed.

7 Vents
Vents are provided on the left and right sides for the cooling fan. When these vents are clogged with dust, dirt, etc. the fan will not be able to function properly, causing the OVER HEAT Indicator to light up frequently. Do not block these vents.

8 SIGNAL (Signal) Indicator
Lights up when the amplifier is functioning properly and signals are output.
Does not light up when the ATTENUATOR Knob is rotated fully to the left (∞).

Caution

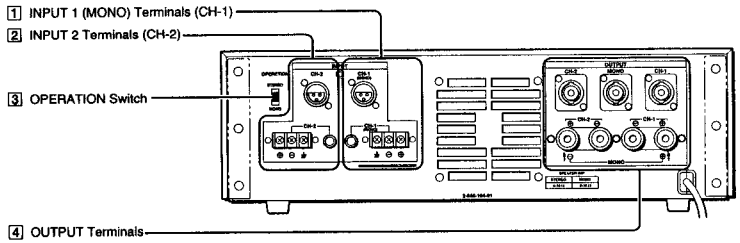
If the PROTECTION lamp lights up
The protection circuit will operate in the following cases (When the PROTECTION Indicator lights up), and the output is cut to protect the speakers and amplifier.

- When DC flows to the OUTPUT terminal due to malfunction.
- When the temperature of the heat radiator in the amplifier exceeds the specified value. (The OVER HEAT Indicator will continue being lit.)
- When the impedance of the connected speakers is too low or the OUTPUT terminal has short-circuited.

In such cases, turn OFF the POWER switch, remove the fault, turn ON the POWER switch again to resume use.

This section is extracted from instruction manual.

Rear Panel



1 INPUT 1 (MONO) Terminals (CH-1)

Connected to the outputs of a mixing console, etc.
Serve as the input terminals for CHANNEL 1 when the OPERATION switch is set to STEREO.
When the switch is set to MONO, input monaural signal.

XLR connector (XLR-3-31 equivalent) INPUT

Barrier strips (Balanced) INPUT

Phone type (Balanced) INPUT

2 INPUT 2 Terminals (CH-2)

Connected to the outputs of a mixing console, etc.
Serve as the input terminals for CHANNEL 2 when the OPERATION switch is set to STEREO.
When the switch is set to MONO, these terminals are separated from the signal route.

XLR connector (XLR-3-31 equivalent) INPUT

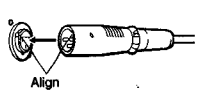
Barrier strips (Balanced) INPUT

Phone type (Balanced) INPUT

XLR type terminals

1 : GND
2 : HOT
3 : COLD

XLR connector XLR-3-12C equivalent



Phone type terminals

Tip : HOT
Ring : COLD
Sleeve : GND

3 OPERATION Switch

The operation mode switches as follows.

OPERATION Switch Settings	Operation Mode
STEREO	2-channel operation
MONO	Monaural operation by BTL

Operate this switch after turning OFF the POWER switch.

4 OUTPUT Terminals

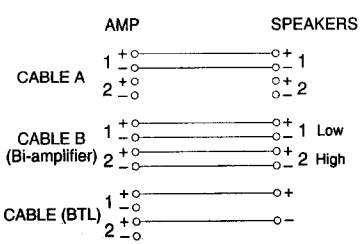
Used to connect speakers. Connect the (+) terminals to the red terminals of the speakers and the (–) terminals to the black terminals of the speakers. In MONO operations by BTL, use only the red terminals. In this case, connect the (+) terminal of the speaker to the red terminal of OUTPUT 1 and the (–) terminal of the speaker to the red terminal of OUTPUT 2.

Neutrik NL4

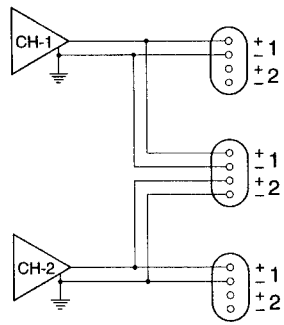
Pin assignment

Contact No.	CH-1, CH-2	MONO
1–	–	CH-1 –
1+	+	CH-1 +
2–	NC	CH-2 –
2+	NC	CH-2 +

• CH-1 should be connected to ±1 in stereo.



NL4 and Power amplifier internal wiring



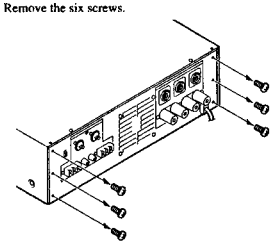
Mounting on the EIA 19-inch Standard Rack

Remove the legs of the bottom of the unit when mounting several units vertically

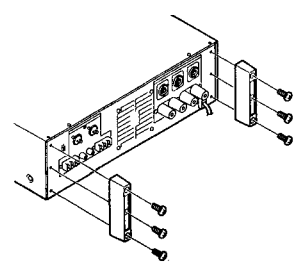
Mounting of the supplied rear foot

Mount the supplied rear foot as follows.

① Remove the six screws.



② Fix the rear foot with the six screws removed in step ①.



CONNECTION

Before Connecting

Power Supply

Take the following precautions to prevent damage to the equipments used and the circuit breaker (safety device) from turning ON.

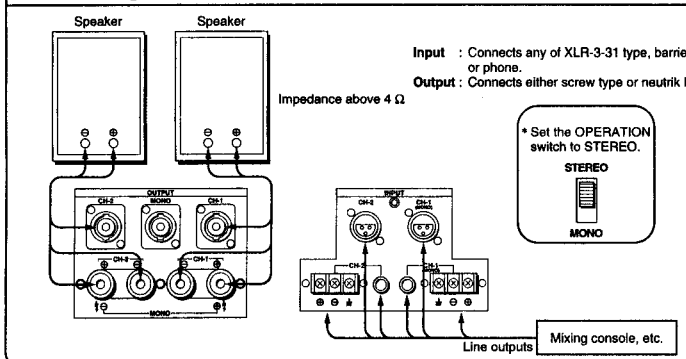
- Do not use extension cords not suited for large currents.
- Do not use large capacity products together.

How to Connect Cords

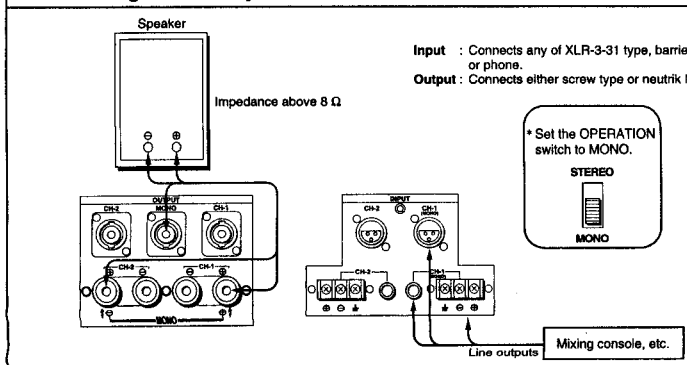
- Insert plugs completely or problems may result.
- Disconnect cords by the plug.
  The cords may break if pulled to disconnect.

Connect after turning OFF the POWER switch first.

When Using in STEREO


Speaker
Speaker
Impedance above 4 Ω
Input : Connects any of XLR-3-31 type, barrier strips or phone.
Output : Connects either screw type or neutrik NL4.
* Set the OPERATION switch to STEREO.
STEREO
MONO
Line outputs
Mixing console, etc.

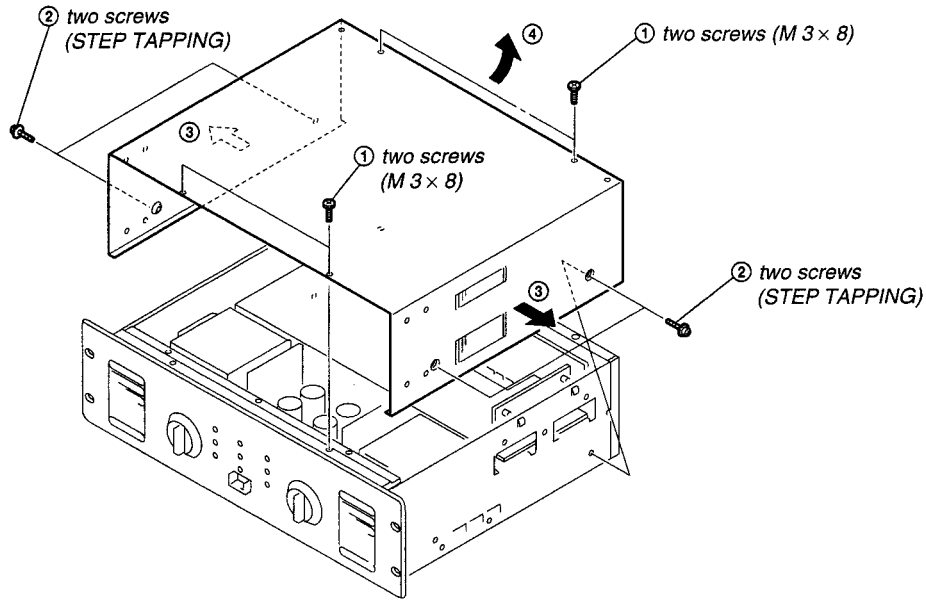
When Using in MONO by BTL


Speaker
Impedance above 8 Ω
Input : Connects any of XLR-3-31 type, barrier strips or phone.
Output : Connects either screw type or neutrik NL4.
* Set the OPERATION switch to MONO.
STEREO
MONO
Line outputs
Mixing console, etc.

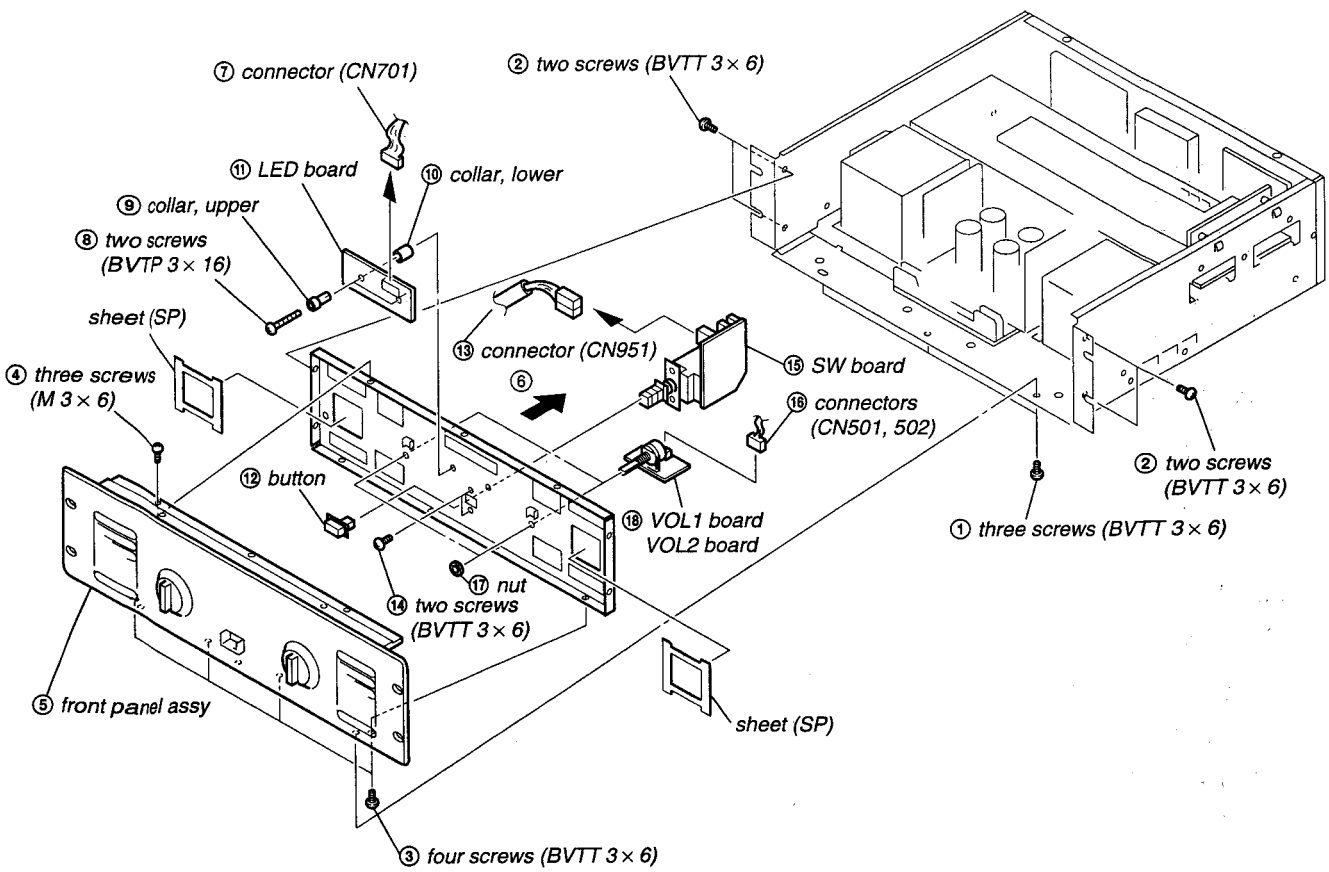
SECTION 2
DISASSEMBLY

Note: Follow the disassemblly procedure in the numerical order given.

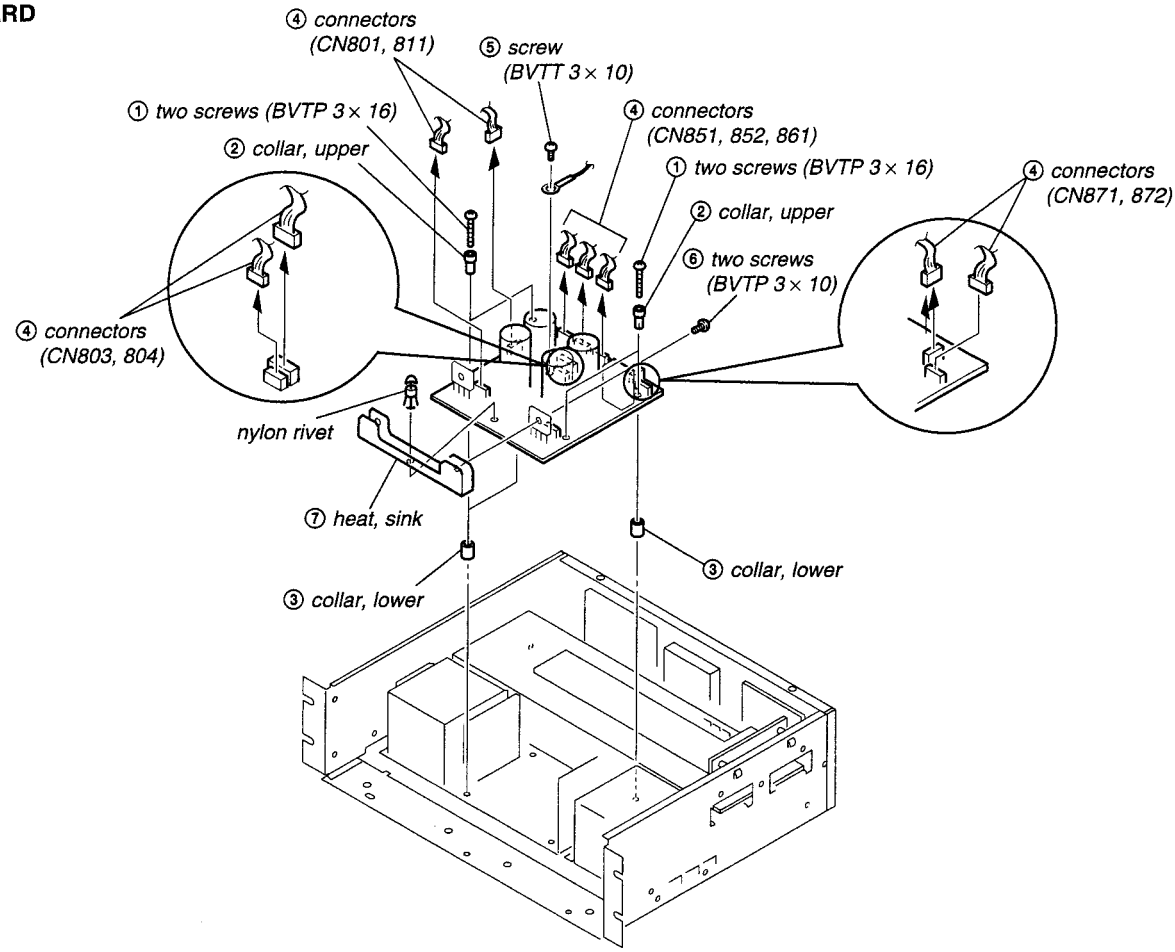
CASE, UPPER



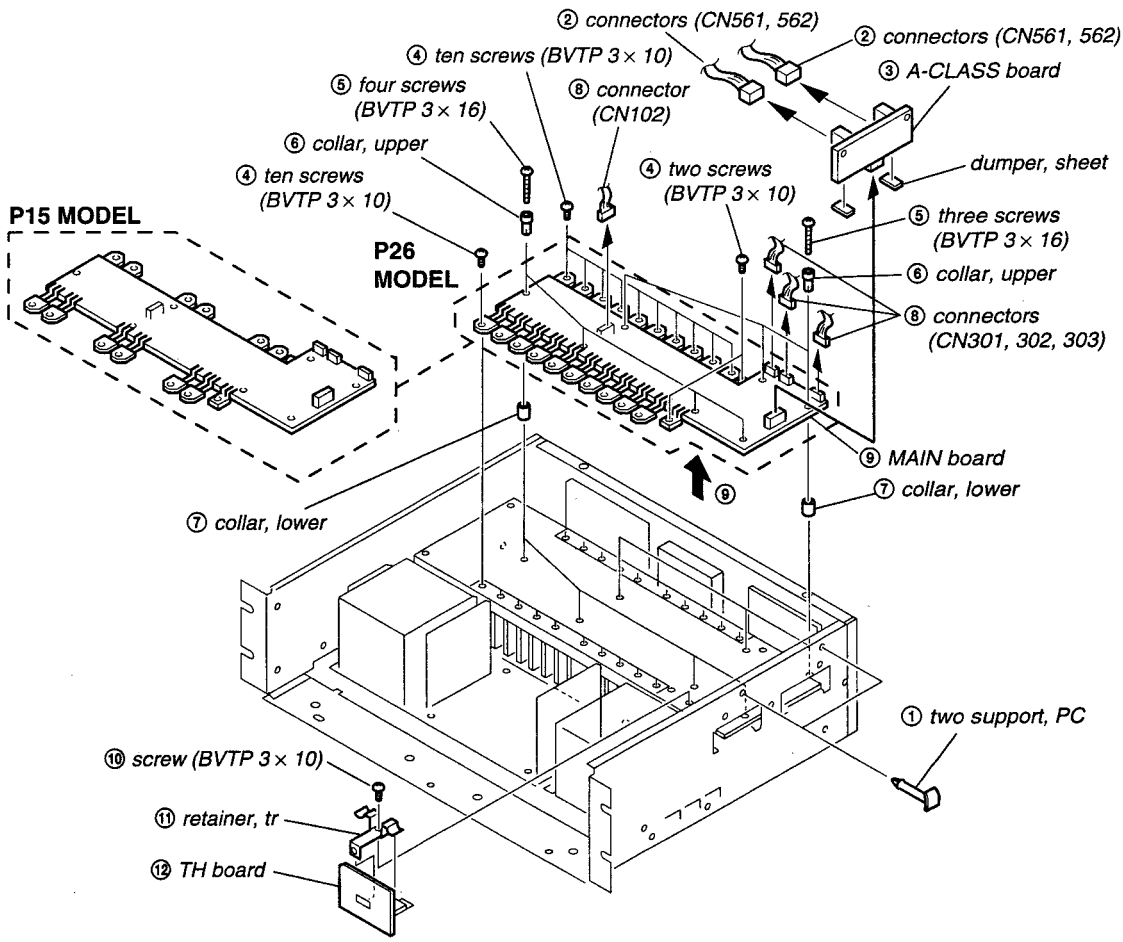
FRONT PANEL



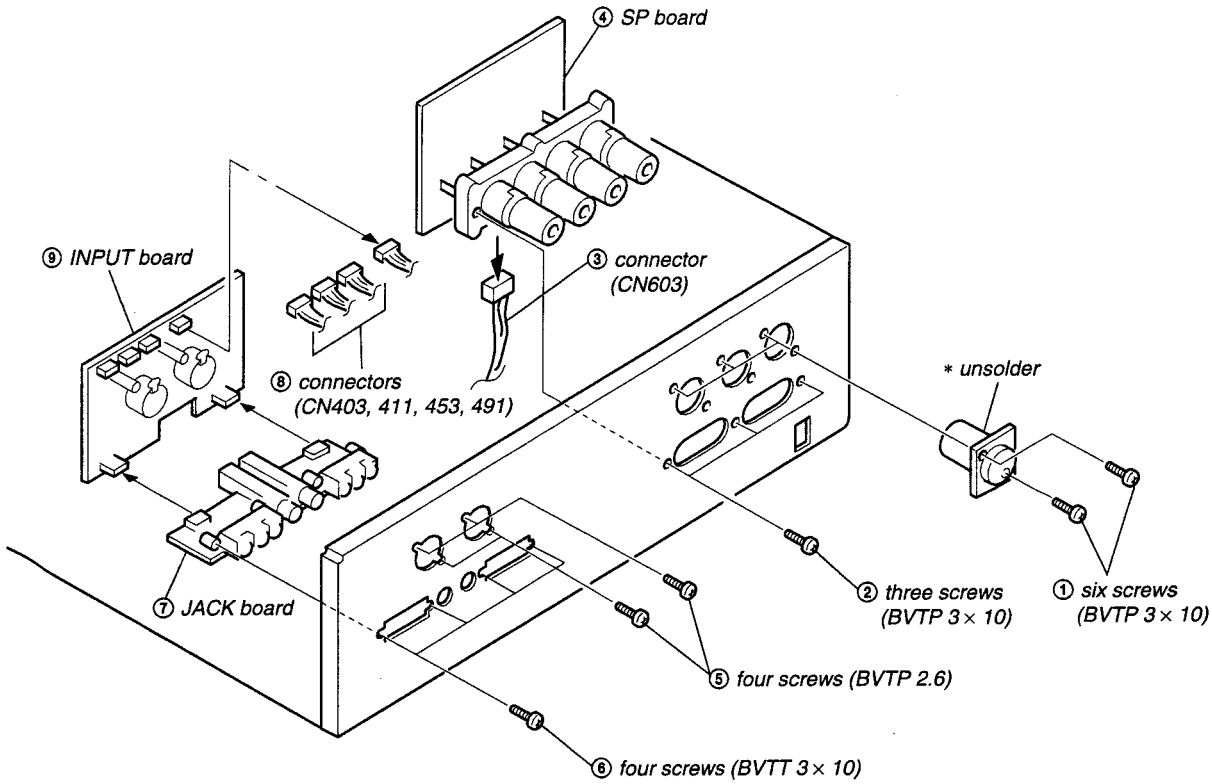
PS BOARD


④ connectors (CN801, 811)
⑤ screw (BVTT 3× 10)
① two screws (BVTP 3× 16)
② collar, upper
④ connectors (CN851, 852, 861)
① two screws (BVTP 3× 16)
② collar, upper
⑥ two screws (BVTP 3× 10)
④ connectors (CN871, 872)
④ connectors (CN803, 804)
nylon rivet
⑦ heat, sink
③ collar, lower
③ collar, lower

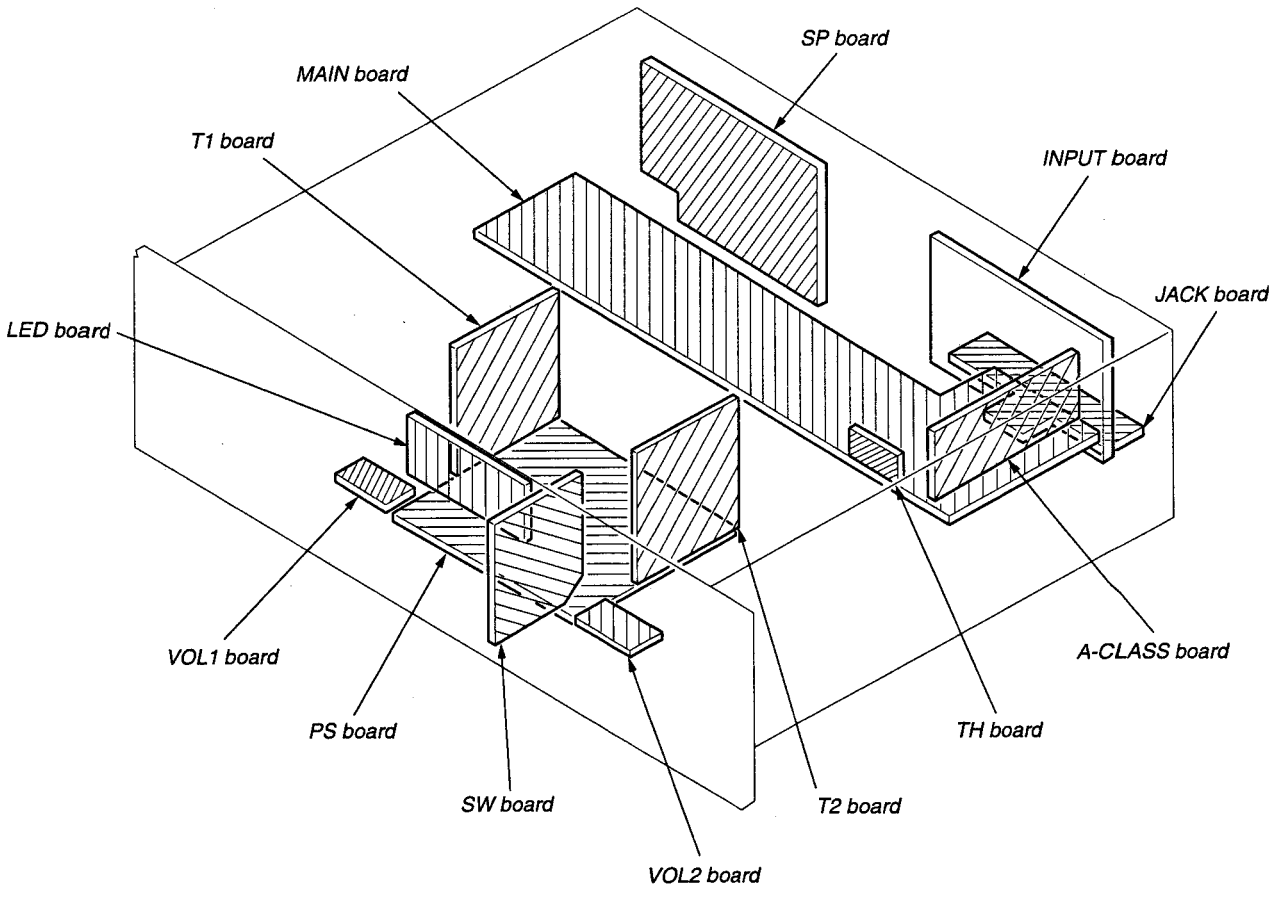
A-CLASS/MAIN/TH BOARDS



SP/INPUT/JACK BOARDS


④ SP board
⑨ INPUT board
③ connector (CN603)
⑧ connectors (CN403, 411, 453, 491)
* unsolder
⑦ JACK board
② three screws (BVTP 3 × 10)
① six screws (BVTP 3 × 10)
⑤ four screws (BVTP 2.6)
⑥ four screws (BVTT 3 × 10)

• **Circuit Boards Location**



SECTION 3
ELECTRICAL ADJUSTMENT

Note:
Make adjustment at least 5 minutes after the POWER switch was turned ON.

Bias Adjustment/DC Offset Confirmation

Preparation:
ATTENUATOR nob : ∞ (MIN)
OPERATION switch : STEREO

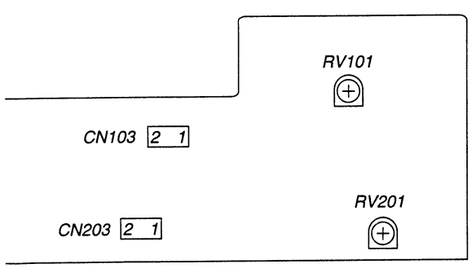
Procedure:
1. Connect a multimeter to the CN103 (203) without a signal.
2. Adjust the RV101 (201) so that a multimeter indicates (Bias adjustment) :

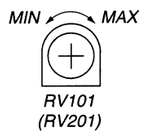
SRP-P15	10 ± 1 mV
SRP-P26	10 ± 1 mV

3. Confirm that the voltage between "+" and "–" output terminals of speaker is below 0 + 40 mV. (DC offset confiirmation)

Adjustment Location:

– MAIN board – (Component Side)



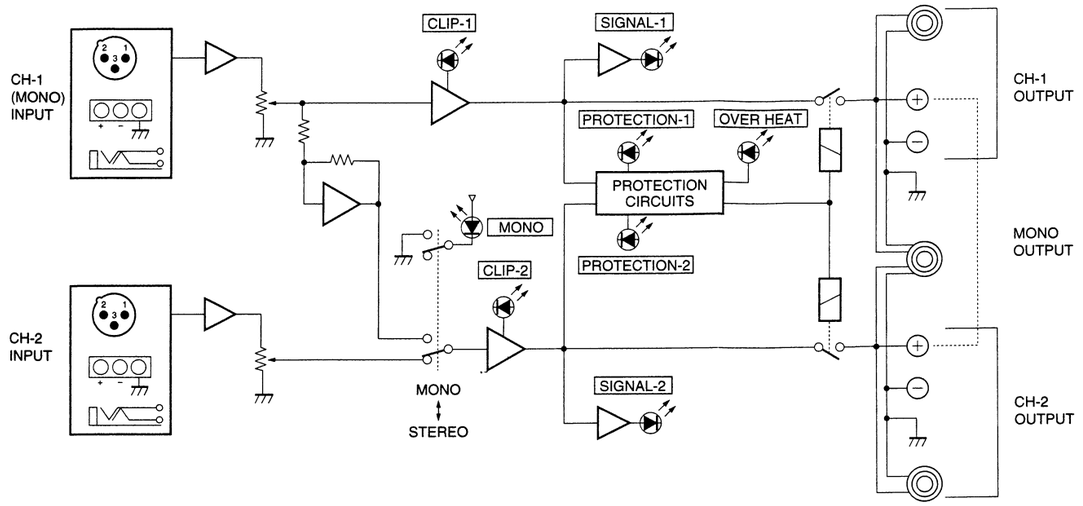


Terminal	Polarity
1	⊕
2	⊖

CN103 (CN203)

SECTION 4
DIAGRAMS

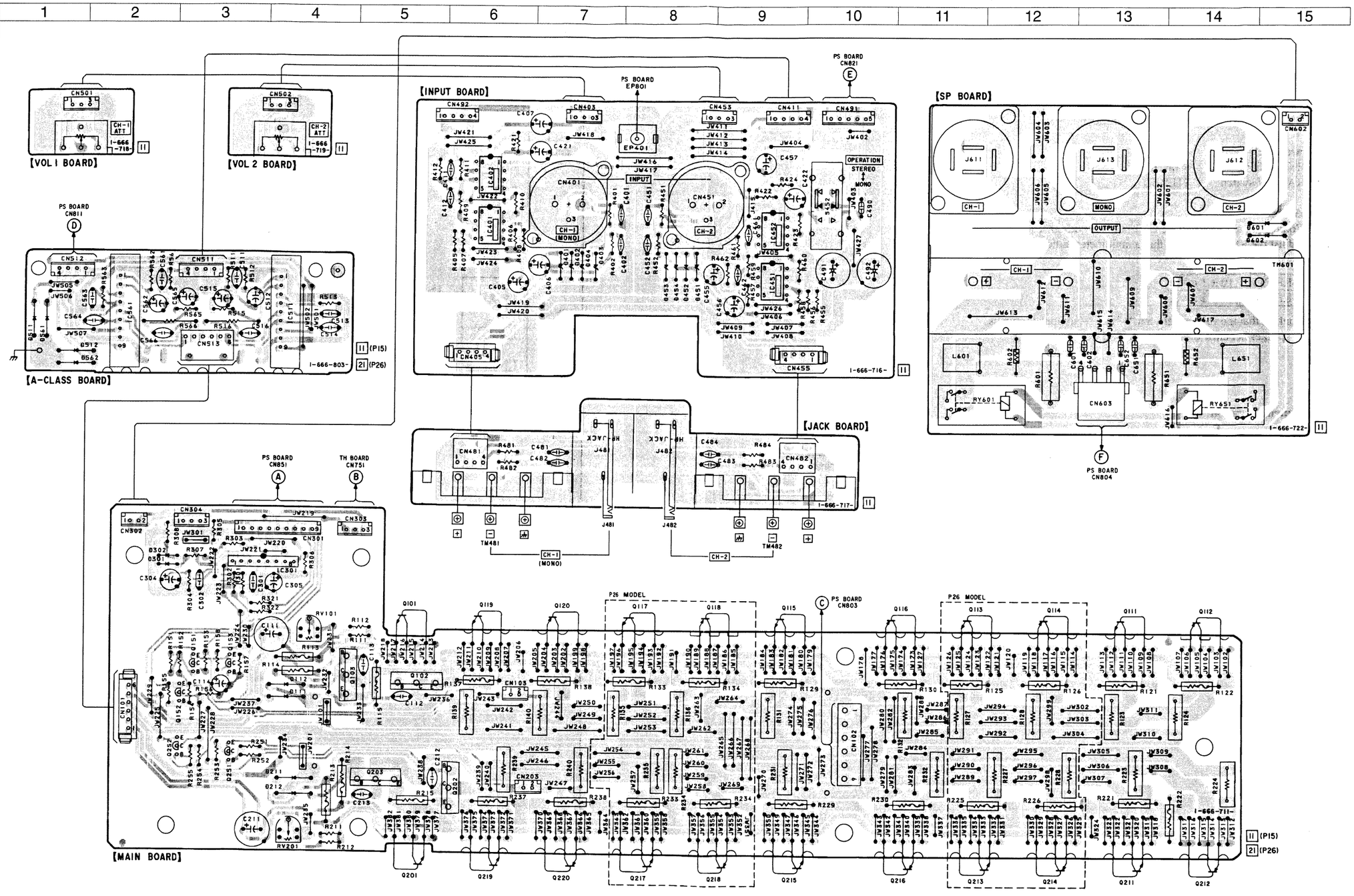
4-1. BLOCK DIAGRAM



4-2. PRINTED WIRING BOARD — MAIN/INPUT/JACK/SP/A-CLASS/VOL1/VOL2 BOARDS —

• Semiconductor Location

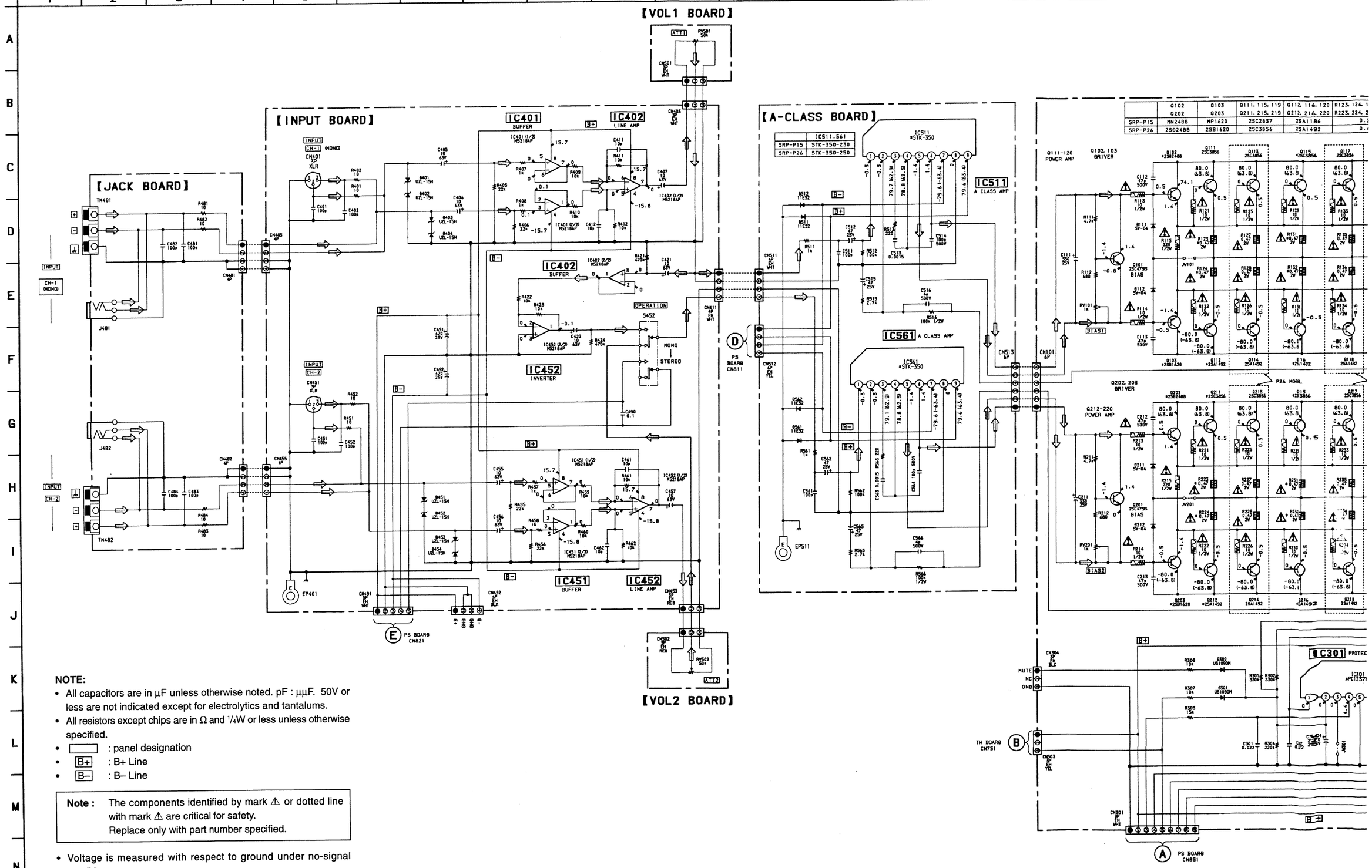
Ref. No.	Location
D111	H-4
D112	H-4
D211	I-4
D212	I-4
D301	G-3
D302	G-3
D401	C-7
D402	C-7
D403	C-8
D404	C-7
D451	C-9
D452	C-9
D453	C-8
D454	C-9
D511	D-1
D512	D-2
D561	D-1
D562	D-2
D601	C-15
D602	C-15
IC401	C-6
IC402	B-6
IC451	C-10
IC452	C-10
IC511	D-4
IC561	D-2
IC301	G-4
Q101	G-5
Q102	H-6
Q103	H-5
Q111	G-14
Q112	G-15
Q113	G-12
Q114	G-13
Q115	G-10
Q116	G-11
Q117	G-8
Q118	G-9
Q119	G-6
Q120	G-7
Q151	H-3
Q152	H-3
Q153	H-3
Q201	J-5
Q202	I-6
Q203	I-5
Q211	G-14
Q212	G-15
Q213	G-12
Q214	G-13
Q215	J-10
Q216	J-11
Q217	J-8
Q218	J-9
Q219	J-6
Q220	J-7
Q251	I-3
Q252	I-3



Note:

- ——o—— : parts extracted from the component side.
- ——— : parts extracted from the conductor side.
- ▬▬ : Pattern on the side which is seen.

4-3. CIRCUIT DIAGRAM — MAIN/INPUT/JACK/SP/A-CLASS/VOL1/VOL2 BOARDS —



	IC511.561
SRP-P15	STK-350-230
SRP-P26	STK-350-250

	Q102 Q202	Q103 Q203	Q111, 115, 119 Q211, 215, 219	Q112, 116, 120 Q212, 216, 220	R123, 124, 1 R223, 224, 2
SRP-P15	MN2488	MP1620	2SC2837	2SA1186	0.:
SRP-P26	2SD2488	2SB1620	2SC3856	2SA1492	0.:

NOTE:

- All capacitors are in μF unless otherwise noted. pF : μμF. 50V or less are not indicated except for electrolytics and tantalums.
- All resistors except chips are in Ω and 1/4W or less unless otherwise specified.
- ▭ : panel designation
- B+ : B+ Line
- B– : B– Line

Note : The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

- Voltage is measured with respect to ground under no-signal conditions.
- Voltages are reference volue measured by a VOM (10 MΩ/V).

DS —

8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29

【VOL1 BOARD】

【A-CLASS BOARD】

	IC511, 561
SRP-P15	STK-350-230
SRP-P26	STK-350-250

【MAIN BOARD】

	Q102 Q202	Q103 Q203	Q111, 115, 119 Q211, 215, 219	Q112, 116, 120 Q212, 216, 220	R123, 124, 131, 132, 139, 140 R223, 224, 231, 232, 239, 240	R155 R255
SRP-P15	MN2488	MP1620	2SC2837	2SA1186	0.22 2W	2.7K
SRP-P26	2SD2488	2SB1620	2SC3856	2SA1492	0.47 2W	680

【PS BOARD (1/2)】

【SP BOARD】

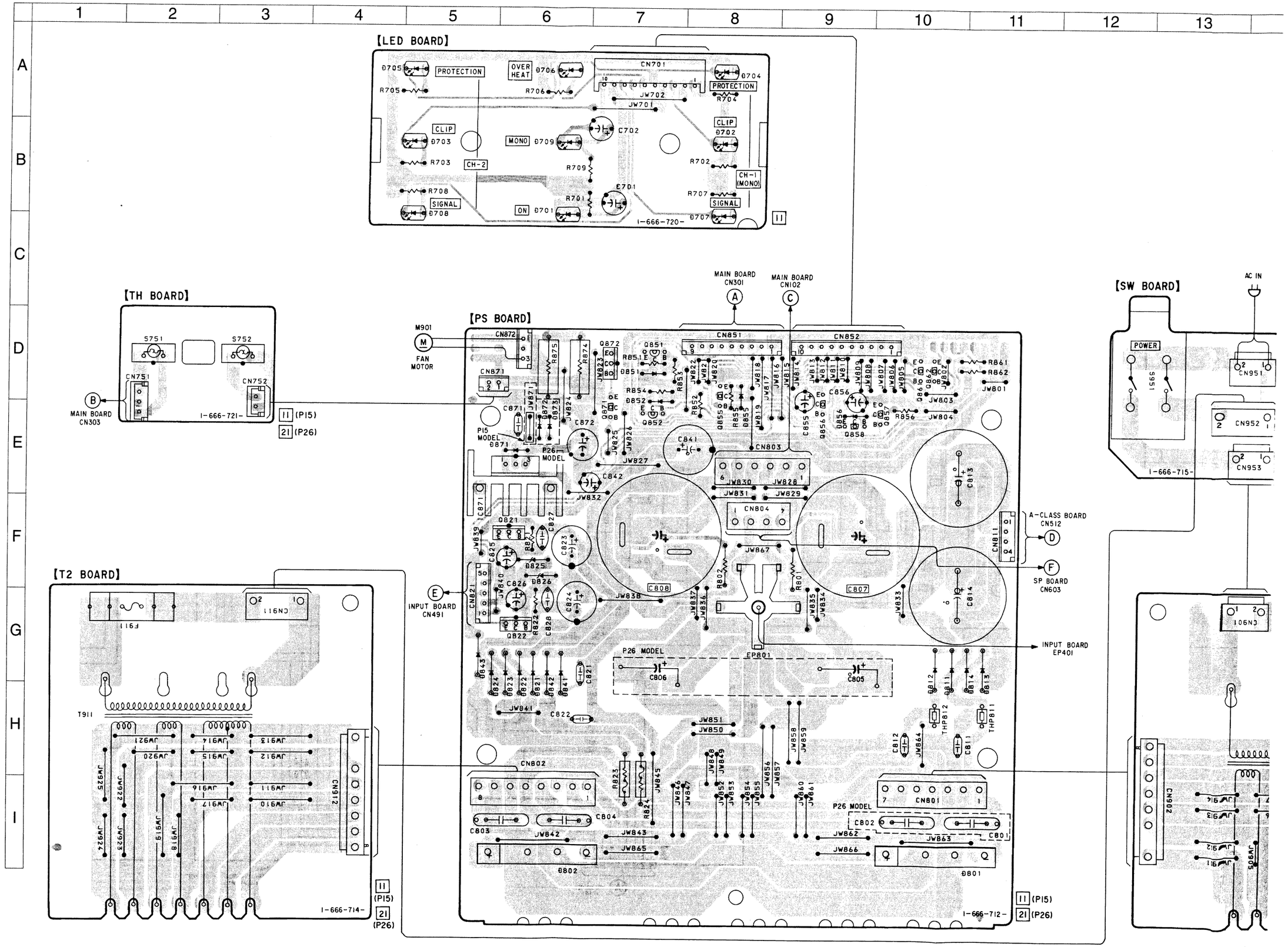
【VOL2 BOARD】

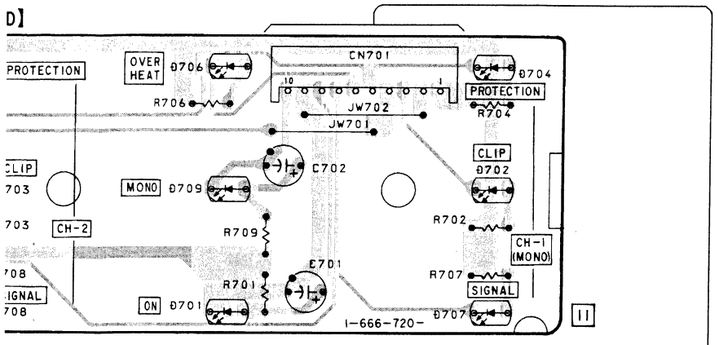
VOLTAGE
NO MARK:SRP-P26 or COMMON
( ):SPR-P15

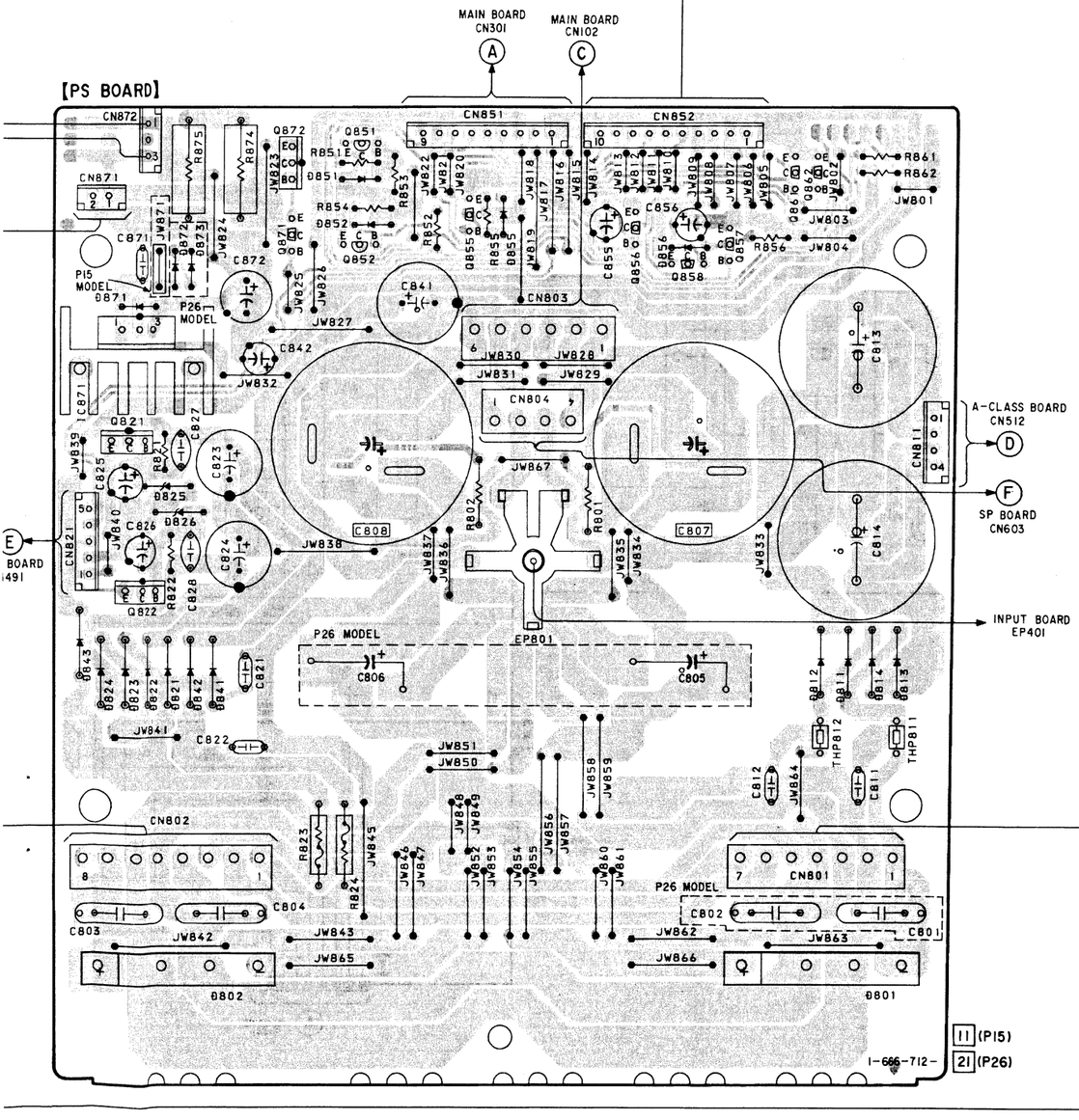
4-4. PRINTED WIRING BOARD — PS/LED/SW/T1/T2/TH BOARDS —

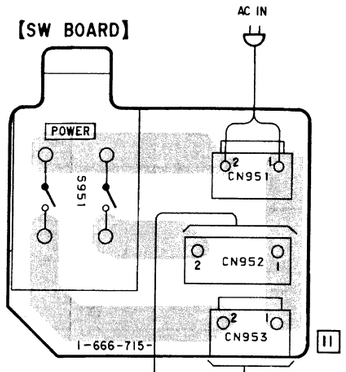
• Semiconductor Location

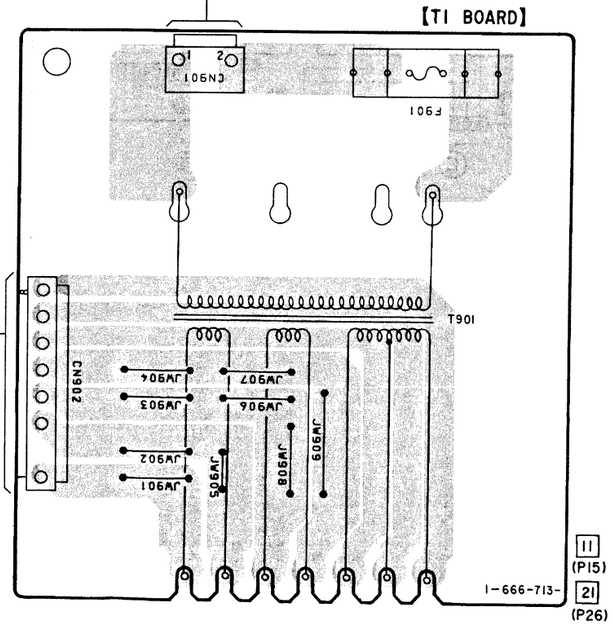
Ref. No.	Location
D701	B-6
D702	B-8
D703	B-4
D704	A-8
D705	A-4
D706	A-6
D707	B-7
D708	B-4
D709	B-6
D801	I-10
D802	I-6
D811	G-10
D812	G-10
D813	G-10
D814	G-10
D821	G-6
D822	G-6
D823	G-5
D824	G-5
D825	F-6
D826	F-6
D841	G-6
D842	G-6
D843	G-5
D851	D-7
D852	D-7
D855	D-8
D856	D-9
D871	E-5
D872	D-6
D873	D-6
IC871	E-5
Q821	F-5
Q822	F-5
Q851	D-7
Q852	D-7
Q855	D-8
Q856	D-9
Q857	D-9
Q858	D-9
Q861	D-10
Q862	D-10
Q871	D-6
Q872	D-6







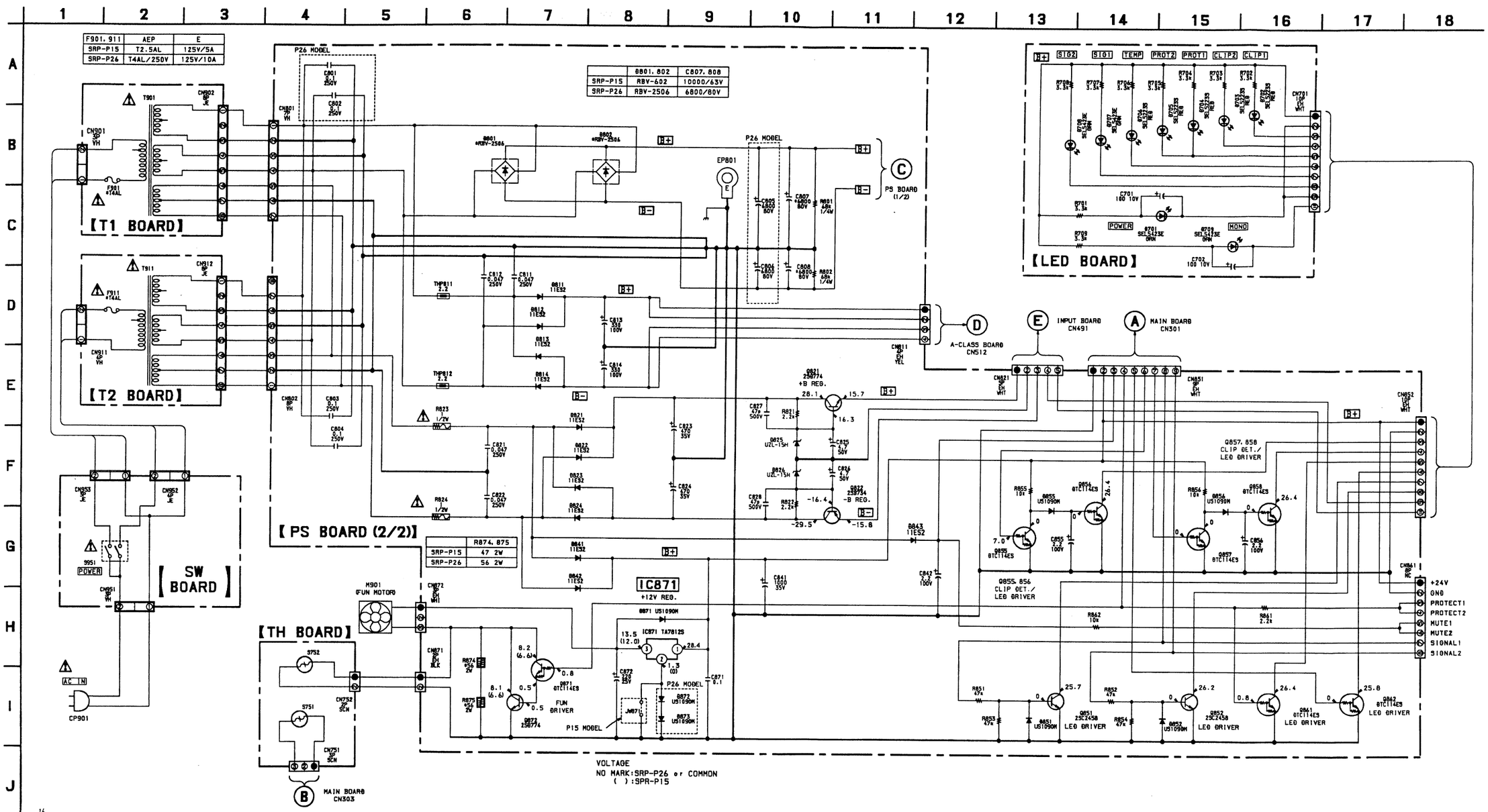




Note:

- ——o—— : parts extracted from the component side.
- ——— : parts extracted from the conductor side.
- ▬▬ : Pattern on the side which is seen.

4-5. CIRCUIT DIAGRAM — PS/LED/SW/T1/T2/TH BOARDS —



NOTE:

- All capacitors are in µF unless otherwise noted. pF : µµF. 50V or less are not indicated except for electrolytics and tantalums.
- All resistors except chips are in Ω and 1/4W or less unless otherwise specified.
- ⏦ : fusible resistor
- ▭ : panel designation
- B+ : B+ Line
- B− : B− Line
- ▭ : adjustment for repair.
- Voltage is measured with respect to ground under no-signal conditions.
- Voltages are reference volue measured by a VOM (10MΩ/V).
- Signal path
  ⇨ : LINE

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

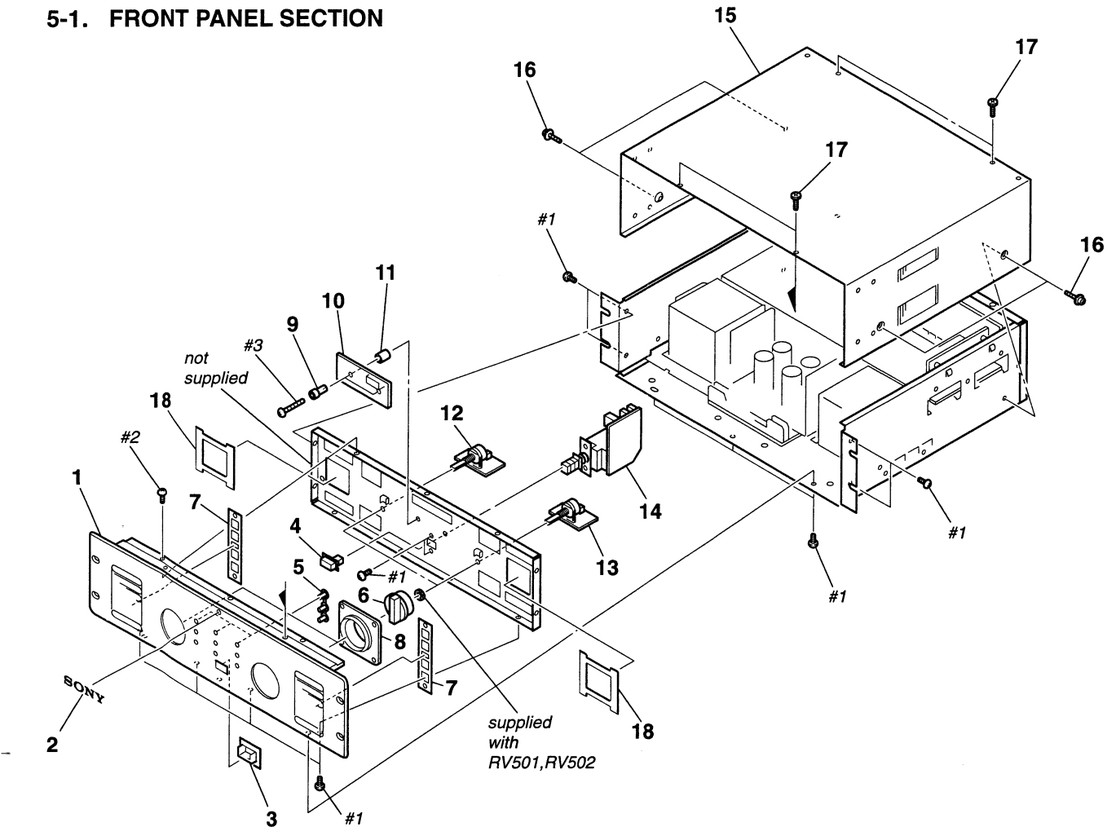
SECTION 5
REPAIR PARTS LIST

Note:

- -XX, -X mean standardized parts, so they may have some differences from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

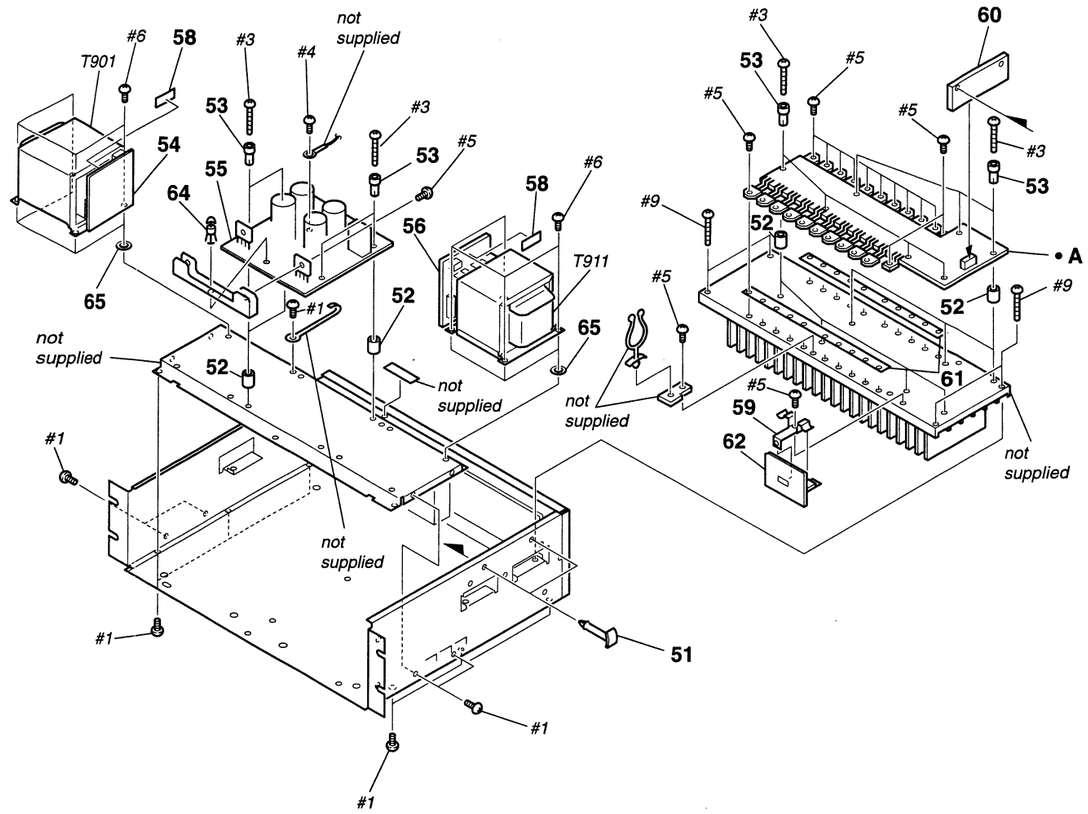
5-1. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remarks
1	2-346-102-01	PANEL, FRONT	(P26)
1	2-346-102-11	PANEL, FRONT	(P15)
2	4-942-568-01	EMBLEM (NO.5), SONY	
3	2-335-846-01	ESCUTCHEON	
4	2-335-924-01	BUTTON	
5	4-957-450-01	INDICATOR (DSP)	
6	2-344-691-01	KNOB, ATT	
7	2-346-160-01	SHEET (GUARD)	
8	2-346-114-01	RING (ORNAMENTAL)	
* 9	2-346-110-01	COLLAR (UPPER)	
* 10	1-666-720-11	LED BOARD	
* 11	2-346-111-01	COLLAR (LOWER)	
* 12	1-666-718-11	VOL1 BOARD	
* 13	1-666-719-11	VOL2 BOARD	
* 14	1-666-715-11	SW BOARD	
* 15	2-344-813-01	CASE, UPPER	
16	2-338-688-01	SCREW, STEP TAPPING	
17	3-704-366-01	SCREW (CASE) (M3X8)	
18	2-346-236-01	SHEET (SP)	

5-2. HEAT SINK SECTION

• A : MAIN board

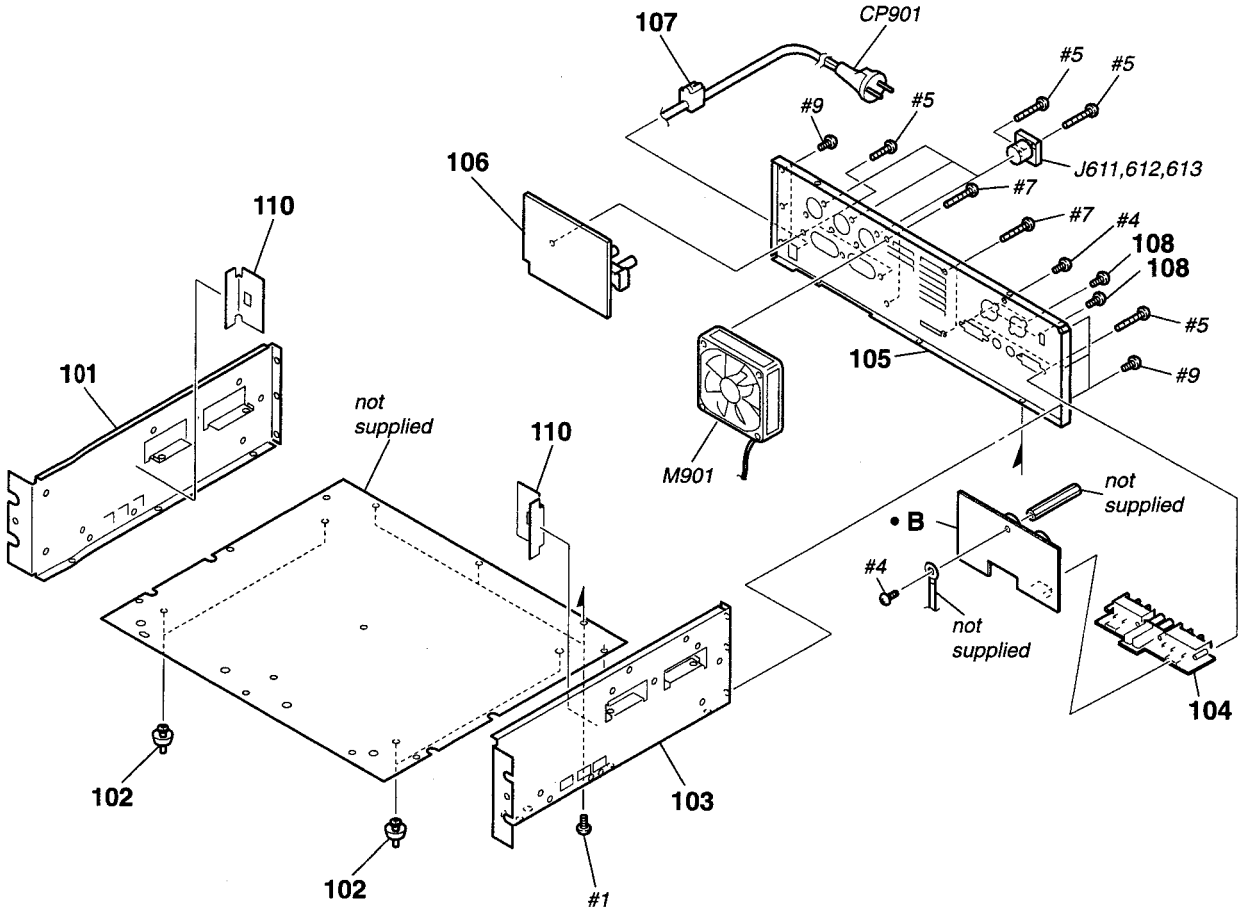


Ref. No.	Part No.	Description	Remarks
* 51	2-338-741-31	SUPPORT, PC	
* 52	2-346-111-01	COLLAR (LOWER)	
* 53	2-346-110-01	COLLAR (UPPER)	
* 54	1-666-713-11	T1 BOARD	(P15)
* 54	1-666-713-21	T1 BOARD	(P26)
* 55	A-4591-002-A	PS BOARD, COMPLETE	(P15)
* 55	A-4591-016-A	PS BOARD, COMPLETE	(P26)
* 56	1-666-714-11	T2 BOARD	(P15)
* 56	1-666-714-21	T2 BOARD	(P26)
58	3-701-946-27	LABEL, FUSE RATING	(P15:E)
58	3-701-946-31	LABEL, FUSE RATING	(P26:E)
* 59	4-378-621-01	RETAINER, TR	
* 60	1-666-803-11	A-CLASS BOARD	(P15)
* 60	1-666-803-21	A-CLASS BOARD	(P26)
* 61	2-346-112-01	SHEET (TR)	
* 62	1-666-721-11	TH BOARD	(P15)
* 62	1-666-721-21	TH BOARD	(P26)
* 63	A-4588-999-A	COMBINED MAIN BOARD COMPLETE (including • A)	(P15)
* 63	A-4591-014-A	COMBINED MAIN BOARD COMPLETE (including • A)	(P26)
* 64	4-812-134-01	NYLON RIVET (ø3.5)	
* 65	4-923-809-01	CUSHION (A)	
⚠T901	1-431-485-11	TRANSFORMER, POWER	(P26:E)
⚠T901	1-431-486-11	TRANSFORMER, POWER	(P15:AEP)
⚠T901	1-431-487-11	TRANSFORMER, POWER	(P15:E)
⚠T901	1-431-488-11	TRANSFORMER, POWER	(P26:AEP)
⚠T911	1-431-485-11	TRANSFORMER, POWER	(P26:E)
⚠T911	1-431-486-11	TRANSFORMER, POWER	(P15:AEP)
⚠T911	1-431-487-11	TRANSFORMER, POWER	(P15:E)
⚠T911	1-431-488-11	TRANSFORMER, POWER	(P26:AEP)

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

5-3. REAR PANEL SECTION

• B : INPUT board



Ref. No.	Part No.	Description	Remarks
* 101	2-346-140-01	FRAME (L)	
102	2-337-554-01	FOOT	
* 103	2-346-141-01	FRAME (R)	
* 104	1-666-717-11	JACK BOARD	
* 105	2-346-104-01	PANEL, BACK	
* 106	1-666-722-11	SP BOARD	
107	2-352-626-01	BUSHING, CORD	
108	4-951-620-31	SCREW (2.6), +BVTP	
* 109	A-4591-006-A	COMBINED INPUT BOARD COMPLETE (including • B)	
110	2-346-262-01	SHIELD PLATE	(P26)
⚠ CP901	1-559-479-11	CORD, POWER	(P15:E/P26:E)
⚠ CP901	1-575-953-11	CORD, POWER	(P15:AEP/P26:AEP)
M901	1-541-944-11	FAN	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

MAIN

SECTION 6
ELECTRICAL PARTS LIST

Note:

When indicating parts by reference number, please include the board name.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- CAPACITORS:
  uF: μF
- RESISTORS
  All resistors are in ohms.
  METAL: metal-film resistor
  METAL OXIDE: Metal Oxide-film resistor
  F: nonflammable
- COILS
  uH: μH
- SEMICONDUCTORS
  In each case, u: μ, for example:
  uA...: μA... , uPA... , μPA... ,
  uPB... , μPB... , uPC... , μPC... ,
  uPD..., μPD...

Ref. No.	Part No.	Description			Remarks
*	A-4588-999-A	COMBINED MAIN BOARD, COMPLETE (P15)			
		**********			
*	A-4591-014-A	COMBINED MAIN BOARD, COMPLETE (P26)			
		**********			
		(including MAIN BOARD)			
	4-812-134-00	RIVET (DIA. 3.5), NYLON			
	7-685-647-79	SCREW +BVTP 3X10 TYPE2 TT(B)			
	7-685-873-09	SCREW +BVTT 3X10 (S)			
		MAIN BOARD			
		**********			
		< CAPACITOR >			
C111	1-126-025-11	ELECT	330uF	20%	25V
C112	1-162-815-11	CERAMIC	47PF	5%	500V
C113	1-162-815-11	CERAMIC	47PF	5%	500V
C114	1-126-059-11	ELECT	10uF	20%	63V
C211	1-126-025-11	ELECT	330uF	20%	25V
C212	1-162-815-11	CERAMIC	47PF	5%	500V
C213	1-162-815-11	CERAMIC	47PF	5%	500V
C301	1-136-157-00	FILM	0.022uF	5%	50V
C302	1-136-157-00	FILM	0.022uF	5%	50V
C304	1-126-024-11	ELECT	220uF	20%	25V
C305	1-126-022-11	ELECT	47uF	20%	25V
		< CONNECTOR >			
* CN101	1-565-482-11	CONNECTOR, BOARD TO BOARD 6P			
* CN102	1-766-176-11	PIN, CONNECTOR (PC BOARD) 6P			
CN103	1-564-505-11	PLUG, CONNECTOR 2P			
* CN203	1-564-505-11	PLUG, CONNECTOR 2P			
* CN301	1-564-512-11	PLUG, CONNECTOR 9P			
* CN302	1-564-505-11	PLUG, CONNECTOR 2P			
* CN303	1-564-506-11	PLUG, CONNECTOR 3P			
* CN304	1-564-506-11	PLUG, CONNECTOR 3P			
		< DIODE >			
D111	8-719-300-04	DIODE SV-04			
D112	8-719-300-04	DIODE SV-04			
D211	8-719-300-04	DIODE SV-04			
D212	8-719-300-04	DIODE SV-04			
D301	8-719-815-85	DIODE 1S1585			
D302	8-719-815-85	DIODE 1S1585			
		< IC >			
IC301	8-759-111-68	IC uPC1237HA			

Ref. No.	Part No.	Description	Remarks
		< TRANSISTOR >	
Q101	8-729-017-06	TRANSISTOR 2SC4793	
Q102	8-749-010-25	IC MN2488-OPY-M	(P15)
Q102	8-729-042-18	TRANSISTOR 2SD2488-P	(P26)
Q103	8-749-010-26	IC MP1620-OPY-M	(P15)
Q103	8-729-042-21	TRANSISTOR 2SB1620-P	(P26)
Q111	8-729-010-97	TRANSISTOR 2SC3856-Y	(P26)
Q111	8-729-383-73	TRANSISTOR 2SC2837-Y	(P15)
Q112	8-729-010-98	TRANSISTOR 2SA1492-Y	(P26)
Q112	8-729-318-63	TRANSISTOR 2SA1186-Y	(P15)
Q113	8-729-010-97	TRANSISTOR 2SC3856-Y	(P26)
Q114	8-729-010-98	TRANSISTOR 2SA1492-Y	(P26)
Q115	8-729-010-97	TRANSISTOR 2SC3856-Y	(P26)
Q115	8-729-383-73	TRANSISTOR 2SC2837-Y	(P15)
Q116	8-729-010-98	TRANSISTOR 2SA1492-Y	(P26)
Q116	8-729-318-63	TRANSISTOR 2SA1186-Y	(P15)
Q117	8-729-010-97	TRANSISTOR 2SC3856-Y	(P26)
Q118	8-729-010-98	TRANSISTOR 2SA1492-Y	(P26)
Q119	8-729-010-97	TRANSISTOR 2SC3856-Y	(P26)
Q119	8-729-383-73	TRANSISTOR 2SC2837-Y	(P15)
Q120	8-729-010-98	TRANSISTOR 2SA1492-Y	(P26)
Q120	8-729-318-63	TRANSISTOR 2SA1186-Y	(P15)
Q151	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q152	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA	
Q153	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q201	8-729-017-06	TRANSISTOR 2SC4793	
Q202	8-749-010-25	IC MN2488-OPY-M	(P15)
Q202	8-729-042-18	TRANSISTOR 2SD2488-P	(P26)
Q203	8-749-010-26	IC MP1620-OPY-M	(P15)
Q203	8-729-042-21	TRANSISTOR 2SB1620-P	(P26)
Q211	8-729-010-97	TRANSISTOR 2SC3856-Y	(P26)
Q211	8-729-383-73	TRANSISTOR 2SC2837-Y	(P15)
Q212	8-729-010-98	TRANSISTOR 2SA1492-Y	(P26)
Q212	8-729-318-63	TRANSISTOR 2SA1186-Y	(P15)
Q213	8-729-010-97	TRANSISTOR 2SC3856-Y	(P26)
Q214	8-729-010-98	TRANSISTOR 2SA1492-Y	(P26)
Q215	8-729-010-97	TRANSISTOR 2SC3856-Y	(P26)
Q215	8-729-383-73	TRANSISTOR 2SC2837-Y	(P15)
Q216	8-729-010-98	TRANSISTOR 2SA1492-Y	(P26)
Q216	8-729-318-63	TRANSISTOR 2SA1186-Y	(P15)

Ref. No.	Part No.	Description			Remarks
Q217	8-729-010-97	TRANSISTOR 2SC3856-Y			(P26)
Q218	8-729-010-98	TRANSISTOR 2SA1492-Y			(P26)
Q219	8-729-010-97	TRANSISTOR 2SC3856-Y			(P26)
Q219	8-729-383-73	TRANSISTOR 2SC2837-Y			(P15)
Q220	8-729-010-98	TRANSISTOR 2SA1492-Y			(P26)
Q220	8-729-318-63	TRANSISTOR 2SA1186-Y			(P15)
Q251	8-729-140-82	TRANSISTOR 2SA988-PAFAEA			
Q252	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA			
		< RESISTOR >			
R111	1-259-444-11	CARBON	4.7K	5%	1/6W
R112	1-259-424-11	CARBON	680	5%	1/6W
⚠R113	1-219-177-91	FUSIBLE	10	5%	1/2W F
⚠R114	1-219-177-91	FUSIBLE	10	5%	1/2W F
⚠R115	1-219-193-11	FUSIBLE	220	5%	1/2W F
⚠R121	1-219-177-91	FUSIBLE	10	5%	1/2W F
⚠R122	1-219-177-91	FUSIBLE	10	5%	1/2W F
R123	1-217-151-00	RES, METAL PLATE		0.22	(P15)
R123	1-217-153-00	RES, METAL PLATE		0.47	(P26)
R124	1-217-151-00	RES, METAL PLATE		0.22	(P15)
R124	1-217-153-00	RES, METAL PLATE		0.47	(P26)
⚠R125	1-219-177-91	FUSIBLE	10	5%	1/2W F (P26)
⚠R126	1-219-177-91	FUSIBLE	10	5%	1/2W F (P26)
R127	1-217-153-00	RES, METAL PLATE		0.47	(P26)
R128	1-217-153-00	RES, METAL PLATE		0.47	(P26)
⚠R129	1-219-177-91	FUSIBLE	10	5%	1/2W F
⚠R130	1-219-177-91	FUSIBLE	10	5%	1/2W F
R131	1-217-151-00	RES, METAL PLATE		0.22	(P15)
R131	1-217-153-00	RES, METAL PLATE		0.47	(P26)
R132	1-217-151-00	RES, METAL PLATE		0.22	(P15)
R132	1-217-153-00	RES, METAL PLATE		0.47	(P26)
⚠R133	1-219-177-91	FUSIBLE	10	5%	1/2W F (P26)
⚠R134	1-219-177-91	FUSIBLE	10	5%	1/2W F (P26)
R135	1-217-153-00	RES, METAL PLATE		0.47	(P26)
R136	1-217-153-00	RES, METAL PLATE		0.47	(P26)
⚠R137	1-219-177-91	FUSIBLE	10	5%	1/2W F
⚠R138	1-219-177-91	FUSIBLE	10	5%	1/2W F
R139	1-217-151-00	RES, METAL PLATE		0.22	(P15)
R139	1-217-153-00	RES, METAL PLATE		0.47	(P26)
R140	1-217-151-00	RES, METAL PLATE		0.22	(P15)
R140	1-217-153-00	RES, METAL PLATE		0.47	(P26)
R151	1-259-476-11	CARBON	100K	5%	1/6W
R152	1-259-492-11	CARBON	470K	5%	1/6W
R153	1-259-476-11	CARBON	100K	5%	1/6W
R154	1-259-438-11	CARBON	2.7K	5%	1/6W
R155	1-259-438-11	CARBON	2.7K	5%	1/6W (P15)
R155	1-259-424-11	CARBON	680	5%	1/6W (P26)
R156	1-259-452-11	CARBON	10K	5%	1/6W
R157	1-259-452-11	CARBON	10K	5%	1/6W
R158	1-259-460-11	CARBON	22K	5%	1/6W

Ref. No.	Part No.	Description			Remarks
R211	1-259-444-11	CARBON	4.7K	5%	1/6W
R212	1-259-424-11	CARBON	680	5%	1/6W
⚠R213	1-219-177-91	FUSIBLE	10	5%	1/2W F
⚠R214	1-219-177-91	FUSIBLE	10	5%	1/2W F
⚠R215	1-219-193-11	FUSIBLE	220	5%	1/2W F
⚠R221	1-219-177-91	FUSIBLE	10	5%	1/2W F
⚠R222	1-219-177-91	FUSIBLE	10	5%	1/2W F
R223	1-217-151-00	RES, METAL PLATE		0.22	(P15)
R223	1-217-153-00	RES, METAL PLATE		0.47	(P26)
R224	1-217-151-00	RES, METAL PLATE		0.22	(P15)
R224	1-217-153-00	RES, METAL PLATE		0.47	(P26)
⚠R225	1-219-177-91	FUSIBLE	10	5%	1/2W F (P26)
⚠R226	1-219-177-91	FUSIBLE	10	5%	1/2W F (P26)
R227	1-217-153-00	RES, METAL PLATE		0.47	(P26)
R228	1-217-153-00	RES, METAL PLATE		0.47	(P26)
⚠R229	1-219-177-91	FUSIBLE	10	5%	1/2W F
⚠R230	1-219-177-91	FUSIBLE	10	5%	1/2W F
R231	1-217-151-00	RES, METAL PLATE		0.22	(P15)
R231	1-217-153-00	RES, METAL PLATE		0.47	(P26)
R232	1-217-151-00	RES, METAL PLATE		0.22	(P15)
R232	1-217-153-00	RES, METAL PLATE		0.47	(P26)
⚠R233	1-219-177-91	FUSIBLE	10	5%	1/2W F (P26)
⚠R234	1-219-177-91	FUSIBLE	10	5%	1/2W F (P26)
R235	1-217-153-00	RES, METAL PLATE		0.47	(P26)
R236	1-217-153-00	RES, METAL PLATE		0.47	(P26)
⚠R237	1-219-177-91	FUSIBLE	10	5%	1/2W F
⚠R238	1-219-177-91	FUSIBLE	10	5%	1/2W F
R239	1-217-151-00	RES, METAL PLATE		0.22	(P15)
R239	1-217-153-00	RES, METAL PLATE		0.47	(P26)
R240	1-217-151-00	RES, METAL PLATE		0.22	(P15)
R240	1-217-153-00	RES, METAL PLATE		0.47	(P26)
R251	1-259-476-11	CARBON	100K	5%	1/6W
R252	1-259-492-11	CARBON	470K	5%	1/6W
R253	1-259-476-11	CARBON	100K	5%	1/6W
R254	1-259-438-11	CARBON	2.7K	5%	1/6W
R255	1-259-438-11	CARBON	2.7K	5%	1/6W (P15)
R255	1-259-424-11	CARBON	680	5%	1/6W (P26)
R301	1-259-488-11	CARBON	330K	5%	1/6W
R302	1-259-488-11	CARBON	330K	5%	1/6W
R303	1-259-456-11	CARBON	15K	5%	1/6W
R304	1-259-484-11	CARBON	220K	5%	1/6W
R305	1-259-452-11	CARBON	10K	5%	1/6W
R306	1-259-476-11	CARBON	100K	5%	1/6W
R307	1-259-452-11	CARBON	10K	5%	1/6W
R308	1-259-452-11	CARBON	10K	5%	1/6W
R321	1-259-460-11	CARBON	22K	5%	1/6W
R322	1-259-460-11	CARBON	22K	5%	1/6W

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

MAIN PS

Ref. No.	Part No.	Description			Remarks
		< VARIABLE RESISTOR >			
RV101	1-238-597-11	RES, ADJ, CARBON 1K			
RV201	1-238-597-11	RES, ADJ, CARBON 1K			
**********					
*	A-4591-002-A	PS BOARD, COMPLETE			(P15)
		**********			
*	A-4591-016-A	PS BOARD, COMPLETE			(P26)
		**********			
		< CAPACITOR >			
C801	1-136-189-00	FILM	0.1uF	10%	250V
					(P26)
C802	1-136-189-00	FILM	0.1uF	10%	250V
					(P26)
C803	1-136-189-00	FILM	0.1uF	10%	250V
C804	1-136-189-00	FILM	0.1uF	10%	250V
C805	1-117-907-11	ELECT	6800uF	20%	80V
					(P26)
C806	1-117-907-11	ELECT	6800uF	20%	80V
					(P26)
C807	1-117-906-11	ELECT	10000uF	20%	63V
					(P15)
C807	1-117-907-11	ELECT	6800uF	20%	80V
					(P26)
C808	1-117-906-11	ELECT	10000uF	20%	63V
					(P15)
C808	1-117-907-11	ELECT	6800uF	20%	80V
					(P26)
C811	1-136-187-91	FILM	0.047uF	10%	250V
C812	1-136-187-91	FILM	0.047uF	10%	250V
C813	1-126-079-11	ELECT	330uF	20%	100V
C814	1-126-079-11	ELECT	330uF	20%	100V
C821	1-136-187-91	FILM	0.047uF	10%	250V
C822	1-136-187-91	FILM	0.047uF	10%	250V
C823	1-126-104-11	ELECT	470uF	20%	35V
C824	1-126-104-11	ELECT	470uF	20%	35V
C825	1-126-163-11	ELECT	4.7uF	20%	50V
C826	1-126-163-11	ELECT	4.7uF	20%	50V
C827	1-162-815-11	CERAMIC	47PF	5%	500V
C828	1-162-815-11	CERAMIC	47PF	5%	500V
C841	1-126-040-11	ELECT	1000uF	20%	35V
C842	1-126-070-11	ELECT	2.2uF	20%	100V
C855	1-126-070-11	ELECT	2.2uF	20%	100V
C856	1-126-070-11	ELECT	2.2uF	20%	100V
C871	1-136-165-00	FILM	0.1uF	5%	50V
C872	1-126-024-11	ELECT	220uF	20%	25V
		< CONNECTOR >			
* CN801	1-770-291-11	PIN, CONNECTOR (PC BOARD) 7P			
* CN802	1-691-757-11	PIN, CONNECTOR (PC BOARD) 8P			
* CN803	1-766-176-11	PIN, CONNECTOR (PC BOARD) 6P			
* CN804	1-580-838-11	PIN, CONNECTOR (PC BOARD) 4P			
* CN811	1-564-507-11	PLUG, CONNECTOR 4P			
* CN821	1-564-508-11	PLUG, CONNECTOR 5P			
* CN851	1-564-512-11	PLUG, CONNECTOR 9P			
CN852	1-564-513-11	PLUG, CONNECTOR 10P			
* CN871	1-564-505-11	PLUG, CONNECTOR 2P			
CN872	1-564-506-11	PLUG, CONNECTOR 3P			

Ref. No.	Part No.	Description			Remarks
		< DIODE >			
D801	8-719-302-38	DIODE RBV-602-01			(P15)
D801	8-719-060-53	DIODE RBV-2506			(P26)
D802	8-719-302-38	DIODE RBV-602-01			(P15)
D802	8-719-060-53	DIODE RBV-2506			(P26)
D811	8-719-200-82	DIODE 11ES2			
D812	8-719-200-82	DIODE 11ES2			
D813	8-719-200-82	DIODE 11ES2			
D814	8-719-200-82	DIODE 11ES2			
D821	8-719-200-82	DIODE 11ES2			
D822	8-719-200-82	DIODE 11ES2			
D823	8-719-200-82	DIODE 11ES2			
D824	8-719-200-82	DIODE 11ES2			
D825	8-719-001-94	DIODE UZL-15H			
D826	8-719-001-94	DIODE UZL-15H			
D841	8-719-200-82	DIODE 11ES2			
D842	8-719-200-82	DIODE 11ES2			
D843	8-719-200-82	DIODE 11ES2			
D851	8-719-815-85	DIODE 1S1585			
D852	8-719-815-85	DIODE 1S1585			
D855	8-719-815-85	DIODE 1S1585			
D856	8-719-815-85	DIODE 1S1585			
D871	8-719-815-85	DIODE 1S1585			
D872	8-719-815-85	DIODE 1S1585			(P26)
D873	8-719-815-85	DIODE 1S1585			(P26)
		< GROUND PLATE >			
* EP801	4-916-791-01	PLATE, GROUND, 5P			
		< IC >			
IC871	8-759-231-58	IC TA7812S			
		< TRANSISTOR >			
Q821	8-729-140-96	TRANSISTOR 2SD774-34			
Q822	8-729-140-93	TRANSISTOR 2SB733-34			
Q851	8-729-205-84	TRANSISTOR 2SC2458L-BL-TPE4			
Q852	8-729-205-84	TRANSISTOR 2SC2458L-BL-TPE4			
Q855	8-729-029-67	TRANSISTOR DTC114ESA-TP			
Q856	8-729-029-67	TRANSISTOR DTC114ESA-TP			
Q857	8-729-029-67	TRANSISTOR DTC114ESA-TP			
Q858	8-729-029-67	TRANSISTOR DTC114ESA-TP			
Q861	8-729-029-67	TRANSISTOR DTC114ESA-TP			
Q862	8-729-029-67	TRANSISTOR DTC114ESA-TP			
Q871	8-729-029-67	TRANSISTOR DTC114ESA-TP			
Q872	8-729-140-96	TRANSISTOR 2SD774-34			
		< RESISTOR >			
R801	1-249-967-11	CARBON	68K	1%	1/4W
R802	1-249-967-11	CARBON	68K	1%	1/4W
R821	1-259-436-11	CARBON	2.2K	5%	1/6W
R822	1-259-436-11	CARBON	2.2K	5%	1/6W
⚠R823	1-219-165-11	FUSIBLE	1	5%	1/2W F

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

Ref. No.	Part No.	Description			Remarks
⚠R824	1-219-165-11	FUSIBLE	1	5%	1/2W F
R851	1-259-468-11	CARBON	47K	5%	1/6W
R852	1-259-468-11	CARBON	47K	5%	1/6W
R853	1-259-468-11	CARBON	47K	5%	1/6W
R854	1-259-468-11	CARBON	47K	5%	1/6W
R855	1-259-452-11	CARBON	10K	5%	1/6W
R856	1-259-452-11	CARBON	10K	5%	1/6W
R861	1-259-436-11	CARBON	2.2K	5%	1/6W
R862	1-259-452-11	CARBON	10K	5%	1/6W
R874	1-215-884-11	METAL OXIDE	47	5%	2W F (P15)
R874	1-216-449-11	METAL OXIDE	56	5%	2W F (P26)
R875	1-215-884-11	METAL OXIDE	47	5%	2W F (P15)
R875	1-216-449-11	METAL OXIDE	56	5%	2W F (P26)
		< THERMISTOR(POSITIVE) >			
THP811	1-806-881-11	THERMISTOR, POSITIVE 2.2			
THP812	1-806-881-11	THERMISTOR, POSITIVE 2.2			
**********					
*	1-666-803-11	A-CLASS BOARD **********			(P15)
*	1-666-803-21	A-CLASS BOARD **********			(P26)
		< CAPACITOR >			
C511	1-101-810-00	CERAMIC	100PF	5%	500V
C512	1-126-022-11	ELECT	47uF	20%	25V
C513	1-137-365-11	FILM	0.0015uF	5%	50V
C514	1-101-810-00	CERAMIC	100PF	5%	500V
C515	1-126-022-11	ELECT	47uF	20%	25V
C516	1-102-230-00	CERAMIC	4PF	0.25PF	500V
C561	1-101-810-00	CERAMIC	100PF	5%	500V
C562	1-126-022-11	ELECT	47uF	20%	25V
C563	1-137-365-11	FILM	0.0015uF	5%	50V
C564	1-101-810-00	CERAMIC	100PF	5%	500V
C565	1-126-022-11	ELECT	47uF	20%	25V
C566	1-102-230-00	CERAMIC	4PF	0.25PF	500V
		< CONNECTOR >			
* CN511	1-564-507-11	PLUG, CONNECTOR 4P			
* CN512	1-564-507-11	PLUG, CONNECTOR 4P			
* CN513	1-565-497-11	CONNECTOR, BOARD TO BOARD 6P			
		< DIODE >			
D511	8-719-200-82	DIODE 11ES2			
D512	8-719-200-82	DIODE 11ES2			
D561	8-719-200-82	DIODE 11ES2			
D562	8-719-200-82	DIODE 11ES2			
		< IC >			
IC511	8-749-011-16	IC STK350-230			(P15)
IC511	8-749-013-98	IC STK350-250			(P26)
IC561	8-749-011-16	IC STK350-230			(P15)
IC561	8-749-013-98	IC STK350-250			(P26)

Ref. No.	Part No.	Description			Remarks
		< RESISTOR >			
R511	1-259-428-11	CARBON	1K	5%	1/6W
R512	1-259-476-11	CARBON	100K	5%	1/6W
R513	1-259-412-11	CARBON	220	5%	1/6W
R515	1-259-438-11	CARBON	2.7K	5%	1/6W
R516	1-249-721-11	CARBON	100K	5%	1/2W
R561	1-259-428-11	CARBON	1K	5%	1/6W
R562	1-259-476-11	CARBON	100K	5%	1/6W
R563	1-259-412-11	CARBON	220	5%	1/6W
R565	1-259-438-11	CARBON	2.7K	5%	1/6W
R566	1-249-721-11	CARBON	100K	5%	1/2W
**********					
*	1-666-713-11	T1 BOARD ********			(P15)
*	1-666-713-21	T1 BOARD ********			(P26)
		< CONNECTOR >			
CN901	1-691-960-11	PIN, CONNECTOR (PC BOARD) 3P			
		< FUSE >			
⚠F901	1-532-286-00	FUSE, TIME-LAG T 2.5AL			(P15:AEP)
⚠F901	1-532-350-11	FUSE, TIME-LAG T 4AL/250V			(P26:AEP)
⚠F901	1-532-747-11	FUSE, GLASS TUBE 125V/5A			(P15:E)
⚠F901	1-576-048-11	FUSE, GLASS TUBE 125V/10A			(P26:E)
		< FUSE HOLDER >			
FH901	1-533-233-11	HOLDER, FUSE			
FH902	1-533-233-11	HOLDER, FUSE			
**********					
*	1-666-714-11	T2 BOARD ********			(P15)
*	1-666-714-21	T2 BOARD ********			(P26)
		< CONNECTOR >			
* CN911	1-580-689-11	PIN, CONNECTOR (PC BOARD) 4P			
		< FUSE >			
⚠F911	1-532-286-00	FUSE, TIME-LAG T 2.5AL			(P15:AEP)
⚠F911	1-532-350-11	FUSE, TIME-LAG T 4AL/250V			(P26:AEP)
⚠F911	1-532-747-11	FUSE, GLASS TUBE 125V/5A			(P15:E)
⚠F911	1-576-048-11	FUSE, GLASS TUBE 125V/10A			(P26:E)
		< FUSE HOLDER >			
FH911	1-533-233-11	HOLDER, FUSE			
FH912	1-533-233-11	HOLDER, FUSE			
**********					

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

TH INPUT JACK

Ref. No.	Part No.	Description	Remarks
*	1-666-721-11	TH BOARD *********	(P15)
*	1-666-721-21	TH BOARD *********	(P26)
		< THERMOSTAT >	
S751	1-533-876-11	THERMOSTAT	
S752	1-533-875-11	THERMOSTAT	
**********			
*	A-4591-006-A	COMBINED INPUT BOARD, COMPLETE **********	
		(including INPUT BOARD)	
		INPUT BOARD **********	
		< CAPACITOR >	
C401	1-102-973-00	CERAMIC 100PF 5% 50V	
C402	1-102-973-00	CERAMIC 100PF 5% 50V	
C405	1-126-059-11	ELECT 10uF 20% 63V	
C406	1-126-059-11	ELECT 10uF 20% 63V	
C407	1-126-059-11	ELECT 10uF 20% 63V	
C411	1-102-947-00	CERAMIC 10PF 5% 50V	
C412	1-102-947-00	CERAMIC 10PF 5% 50V	
C421	1-126-059-11	ELECT 10uF 20% 63V	
C422	1-126-059-11	ELECT 10uF 20% 63V	
C451	1-102-973-00	CERAMIC 100PF 5% 50V	
C452	1-102-973-00	CERAMIC 100PF 5% 50V	
C455	1-126-059-11	ELECT 10uF 20% 63V	
C456	1-126-059-11	ELECT 10uF 20% 63V	
C457	1-126-059-11	ELECT 10uF 20% 63V	
C461	1-102-947-00	CERAMIC 10PF 5% 50V	
C462	1-102-947-00	CERAMIC 10PF 5% 50V	
C490	1-136-165-00	FILM 0.1uF 5% 50V	
C491	1-126-026-11	ELECT 470uF 20% 25V	
C492	1-126-026-11	ELECT 470uF 20% 25V	
		< CONNECTOR >	
* CN401	1-778-307-21	CONNECTOR (RECEPTACLE) 3P	
CN403	1-564-506-11	PLUG, CONNECTOR 3P	
* CN405	1-565-495-11	CONNECTOR, BOARD TO BOARD 4P	
* CN411	1-564-507-11	PLUG, CONNECTOR 4P	
* CN451	1-778-307-21	CONNECTOR (RECEPTACLE) 3P	
* CN453	1-564-506-11	PLUG, CONNECTOR 3P	
* CN455	1-565-495-11	CONNECTOR, BOARD TO BOARD 4P	
* CN491	1-564-508-11	PLUG, CONNECTOR 5P	
* CN492	1-564-507-11	PLUG, CONNECTOR 4P	
		< DIODE >	
D401	8-719-001-94	DIODE UZL-15H	
D402	8-719-001-94	DIODE UZL-15H	
D403	8-719-001-94	DIODE UZL-15H	
D404	8-719-001-94	DIODE UZL-15H	
D451	8-719-001-94	DIODE UZL-15H	
D452	8-719-001-94	DIODE UZL-15H	
D453	8-719-001-94	DIODE UZL-15H	
D454	8-719-001-94	DIODE UZL-15H	

Ref. No.	Part No.	Description	Remarks
		< IC >	
IC401	8-759-634-51	IC M5218AP	
IC402	8-759-634-51	IC M5218AP	
IC451	8-759-634-51	IC M5218AP	
IC452	8-759-634-51	IC M5218AP	
		< RESISTOR >	
R401	1-259-380-11	CARBON 10 5% 1/6W	
R402	1-259-380-11	CARBON 10 5% 1/6W	
R405	1-259-460-11	CARBON 22K 5% 1/6W	
R406	1-259-460-11	CARBON 22K 5% 1/6W	
R407	1-259-428-11	CARBON 1K 5% 1/6W	
R408	1-259-428-11	CARBON 1K 5% 1/6W	
R409	1-259-452-11	CARBON 10K 5% 1/6W	
R410	1-259-452-11	CARBON 10K 5% 1/6W	
R411	1-259-452-11	CARBON 10K 5% 1/6W	
R412	1-259-452-11	CARBON 10K 5% 1/6W	
R421	1-259-492-11	CARBON 470K 5% 1/6W	
R422	1-259-452-11	CARBON 10K 5% 1/6W	
R423	1-259-452-11	CARBON 10K 5% 1/6W	
R424	1-259-492-11	CARBON 470K 5% 1/6W	
R451	1-259-380-11	CARBON 10 5% 1/6W	
R452	1-259-380-11	CARBON 10 5% 1/6W	
R455	1-259-460-11	CARBON 22K 5% 1/6W	
R456	1-259-460-11	CARBON 22K 5% 1/6W	
R457	1-259-428-11	CARBON 1K 5% 1/6W	
R458	1-259-428-11	CARBON 1K 5% 1/6W	
R459	1-259-452-11	CARBON 10K 5% 1/6W	
R460	1-259-452-11	CARBON 10K 5% 1/6W	
R461	1-259-452-11	CARBON 10K 5% 1/6W	
R462	1-259-452-11	CARBON 10K 5% 1/6W	
		< SWITCH >	
S452	1-762-181-11	SWITCH, SLIDE (OPERATION)	
**********			
*	1-666-717-11	JACK BOARD **********	
		< CAPACITOR >	
C481	1-102-973-00	CERAMIC 100PF 5% 50V	
C482	1-102-973-00	CERAMIC 100PF 5% 50V	
C483	1-102-973-00	CERAMIC 100PF 5% 50V	
C484	1-102-973-00	CERAMIC 100PF 5% 50V	
		< CONNECTOR >	
* CN481	1-565-480-11	CONNECTOR, BOARD TO BOARD 4P	
* CN482	1-565-480-11	CONNECTOR, BOARD TO BOARD 4P	
		< JACK >	
J481	1-507-796-71	JACK (INPUT CH-1)	
J482	1-507-796-71	JACK (INPUT CH-2)	
		< RESISTOR >	
R481	1-259-380-11	CARBON 10 5% 1/6W	
R482	1-259-380-11	CARBON 10 5% 1/6W	
R483	1-259-380-11	CARBON 10 5% 1/6W	
R484	1-259-380-11	CARBON 10 5% 1/6W	

Ref. No.	Part No.	Description			Remarks
		< TERMINAL >			
TM481	1-694-335-11	TERMINAL BOARD (INPUT CH-1)			
TM482	1-694-335-11	TERMINAL BOARD (INPUT CH-2)			
**********					
*	1-666-720-11	LED BOARD			
		**********			
		< CAPACITOR >			
C701	1-124-584-00	ELECT	100uF	20% 10V	
C702	1-124-584-00	ELECT	100uF	20% 10V	
		< CONNECTOR >			
* CN701	1-564-525-11	PLUG, CONNECTOR 10P			
		< DIODE >			
D701	8-719-058-03	DIODE SEL5423E-TP15 (ON)			
D702	8-719-058-04	DIODE SEL5223S-TP15 (CH-1 CLIP)			
D703	8-719-058-04	DIODE SEL5223S-TP15 (CH-2 CLIP)			
D704	8-719-058-04	DIODE SEL5223S-TP15 (CH-1 PROTECTION)			
D705	8-719-058-04	DIODE SEL5223S-TP15 (CH-2 PROTECTION)			
D706	8-719-058-04	DIODE SEL5223S-TP15 (OVER HEAT)			
D707	8-719-058-03	DIODE SEL5423E-TP15 (CH-1 SIGNAL)			
D708	8-719-058-03	DIODE SEL5423E-TP15 (CH-2 SIGNAL)			
D709	8-719-058-03	DIODE SEL5423E-TP15 (MONO)			
		< RESISTOR >			
R701	1-259-440-11	CARBON	3.3K	5% 1/6W	
R702	1-259-440-11	CARBON	3.3K	5% 1/6W	
R703	1-259-440-11	CARBON	3.3K	5% 1/6W	
R704	1-259-440-11	CARBON	3.3K	5% 1/6W	
R705	1-259-440-11	CARBON	3.3K	5% 1/6W	
R706	1-259-440-11	CARBON	3.3K	5% 1/6W	
R707	1-259-440-11	CARBON	3.3K	5% 1/6W	
R708	1-259-440-11	CARBON	3.3K	5% 1/6W	
R709	1-259-440-11	CARBON	3.3K	5% 1/6W	
**********					
*	1-666-722-11	SP BOARD			
		*********			
		< CAPACITOR >			
C601	1-136-165-00	FILM	0.1uF	5% 50V	
C602	1-136-165-00	FILM	0.1uF	5% 50V	
C651	1-136-165-00	FILM	0.1uF	5% 50V	
C652	1-136-165-00	FILM	0.1uF	5% 50V	
		< CONNECTOR >			
* CN602	1-564-505-11	PLUG, CONNECTOR 2P			
* CN603	1-691-959-11	PIN, CONNECTOR (PC BOARD) 4P			
		< DIODE >			
D601	8-719-200-82	DIODE 11ES2			
D602	8-719-200-82	DIODE 11ES2			

Ref. No.	Part No.	Description			Remarks
		< JACK >			
J611	1-774-508-11	CONNECTOR, SPEAKER (NL4MP)			(OUTPUT CH-1)
J612	1-774-508-11	CONNECTOR, SPEAKER (NL4MP)			(OUTPUT CH-2)
J613	1-774-508-11	CONNECTOR, SPEAKER (NL4MP)			(OUTPUT MONO)
		< COIL >			
L601	1-411-766-11	COIL, AIR-CORE 2.2uH			
L651	1-411-766-11	COIL, AIR-CORE 2.2uH			
		< RESISTOR >			
R601	1-215-880-00	METAL OXIDE	10	5% 2W	F
R602	1-247-688-11	CARBON	10	5% 1/4W	F
R651	1-215-880-00	METAL OXIDE	10	5% 2W	F
R652	1-247-688-11	CARBON	10	5% 1/4W	F
		< RELAY >			
RY601	1-755-141-11	RELAY			
RY651	1-755-141-11	RELAY			
		< TERMINAL >			
TM601	1-694-225-11	TERMINAL BOARD (SP) (OUTPUT)			
**********					
*	1-666-715-11	SW BOARD			
		*********			
		< CONNECTOR >			
CN951	1-691-960-11	PIN, CONNECTOR (PC BOARD) 3P			
		< SWITCH >			
⚠S951	1-771-187-11	SWITCH, AC POWER (POWER)			
**********					
*	1-666-718-11	VOL1 BOARD			
		**********			
		< CONNECTOR >			
CN501	1-564-506-11	PLUG, CONNECTOR 3P			
		< VARIABLE RESISTOR >			
RV501	1-225-501-11	RES, VAR, CARBON 50K (CH-1 ATTENUATOR)			
**********					
*	1-666-719-11	VOL2 BOARD			
		**********			
		< CONNECTOR >			
* CN502	1-564-506-11	PLUG, CONNECTOR 3P			
		< VARIABLE RESISTOR >			
RV502	1-225-501-11	RES, VAR, CARBON 50K (CH-2 ATTENUATOR)			
**********					

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

Ref. No.	Part No.	Description	Remarks
		MISCELLANEOUS	
		**********	
⚠CP901	1-559-479-11	CORD, POWER	(P15:E/P26:E)
⚠CP901	1-575-953-11	CORD, POWER	(P15:AEP/P26:AEP)
M901	1-541-944-11	FAN	
⚠T901	1-431-485-11	TRANSFORMER, POWER	(P26:E)
⚠T901	1-431-486-11	TRANSFORMER, POWER	(P15:AEP)
⚠T901	1-431-487-11	TRANSFORMER, POWER	(P15:E)
⚠T901	1-431-488-11	TRANSFORMER, POWER	(P26:AEP)
⚠T911	1-431-485-11	TRANSFORMER, POWER	(P26:E)
⚠T911	1-431-486-11	TRANSFORMER, POWER	(P15:AEP)
⚠T911	1-431-487-11	TRANSFORMER, POWER	(P15:E)
⚠T911	1-431-488-11	TRANSFORMER, POWER	(P26:AEP)

****

		ACCESSORIES & PACKING MATERIALS	
		**********	
*	2-338-185-01	FOOT	
	2-344-393-11	INSTRUCTION (WARNING)	(P15:AEP/P26:AEP)
	2-344-393-21	INSTRUCTION (WARNING)	(P15:E/P26:E)
	2-346-117-11	MANUAL, INSTRUCTION (ENGLISH)	

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HARDWARE LIST

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#1	7-685-871-09	SCREW +BVTT 3X6 (S)
#2	7-682-547-09	SCREW (M 3X6), S TITE, + BTT
#3	7-685-650-79	SCREW +BVTP 3X16 TYPE2 TT(B)
#4	7-685-872-01	SCREW +BVTT 3X8 (S)
#5	7-685-647-79	SCREW +BVTP 3X10 TYPE2 TT(B)
#6	7-685-881-09	SCREW +BVTT 4X8 (S)
#7	7-685-671-19	SCREW +BVTP 5X10 TYPE2 N-S
#9	7-685-874-09	SCREW +BVTT 3X12 (S)

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

English
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SRP-P26

SONY

AEP Model

3543

SERVICE MANUAL

SUPPLEMENT-1

File this supplement with the Service Manual (9-977-957-11).

Specifications are partly changed in order to conform to the safety standard EN60065:1998.

Changed contents are shown below.

Serial number:500001 and higher

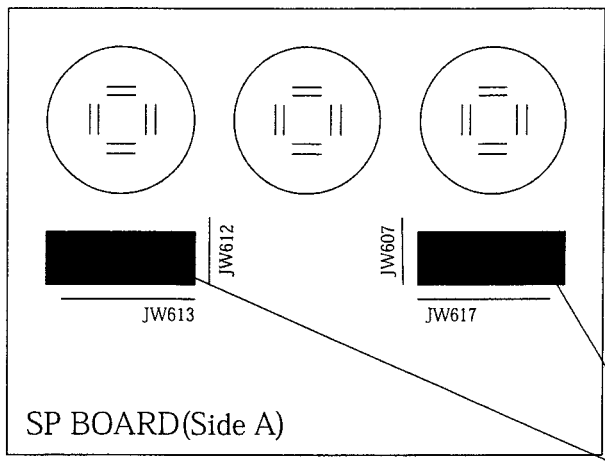
1. The screw type speaker terminal is deleted.
2. Back panel is changed.
3. Fuse rating is changed.
4. Cushion is added to the SP board.
5. Wirings are added on the soldering side of the PS board.

1. The screw type speaker terminal(TM601) is deleted.
(SP board Ref. No.106 on page 23.)
After deletion, the speaker output terminal is "Neutrik NL4" only.

2. Back panel is changed in accordance with deletion of screw type speaker terminal.
3. Fuse rating is changed.

	Page	Ref. No.	Parts No.	Description
—	23	105	2-346-104-11	PANEL,BACK
T1 BOARD 1-666-713-21	18	⚠ F901	1-532-465-51	FUSE,TIME-LAG T3.15AL/250V
T2 BOARD 1-666-714-21	16	⚠ F911		

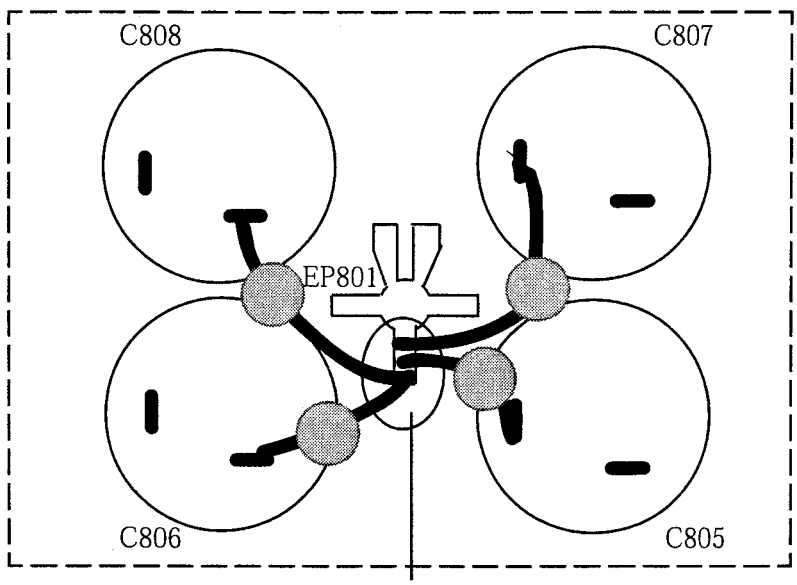
4. In accordance with deletion of screw type speaker terminal, cushion is added to the SP board in order to prevent short-circuiting between the electric devices on the SP board and the back panel.
(The cushion is not supplied as the repair part.)



Position where the cushions are attached.

Cushions(not supplied)

5. Wirings are added on the soldering side of the PS board in order to reinforce the printed pattern of the circuit board.



PS board (enlarged view)

Soldering positions on the EP801 soldering side.

Adhesive material is applied to the four round positions (shown by the round half-tone marks) where wires are fixed.

- Wire used: 7-612-074-20 (UL1007 AWG18 black)
- Adhesive material used: SC608LVZ made by Sony Chemicals Corporation.